



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, April 12, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for CIDER RUN UNIT 1H
47-095-02839-00-00

Expanded LOD for surface owner access

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a faint, larger version of the signature.

James A. Martin
Chief

Operator's Well Number: CIDER RUN UNIT 1H
Farm Name: EDWARD YOST ESTATE
U.S. WELL NUMBER: 47-095-02839-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/12/2023

Promoting a healthy environment.

04/14/2023



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Wednesday, April 12, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for CIDER RUN UNIT 2H
47-095-02840-00-00

Expanded LOD for surface owner access

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: CIDER RUN UNIT 2H
Farm Name: EDWARD YOST ESTATE
U.S. WELL NUMBER: 47-095-02840-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/12/2023

Promoting a healthy environment.

04/14/2023



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Wednesday, April 12, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for PEACH FORK UNIT 1H
47-095-02841-00-00

Expanded LOD for surface owner access

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: PEACH FORK UNIT 1H
Farm Name: EDWARD YOST ESTATE
U.S. WELL NUMBER: 47-095-02841-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/12/2023

Promoting a healthy environment.

04/14/2023



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Wednesday, April 12, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for PEACH FORK UNIT 2H
47-095-02842-00-00

Expanded LOD for surface owner access

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: PEACH FORK UNIT 2H
Farm Name: EDWARD YOST ESTATE
U.S. WELL NUMBER: 47-095-02842-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/12/2023

Promoting a healthy environment.

04/14/2023



west virginia department of environmental protection

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Charleston, WV 25304
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Wednesday, April 12, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for SPILI UNIT 1H
47-095-02843-00-00

Expanded LOD for surface owner access

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: SPILI UNIT 1H
Farm Name: EDWARD YOST ESTATE
U.S. WELL NUMBER: 47-095-02843-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/12/2023

Promoting a healthy environment.

04/14/2023



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Wednesday, April 12, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for SPILI UNIT 2H
47-095-02844-00-00

Expanded LOD for surface owner access

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: SPILI UNIT 2H
Farm Name: EDWARD YOST ESTATE
U.S. WELL NUMBER: 47-095-02844-00-00
Horizontal 6A New Drill
Date Modification Issued: 4/12/2023

Promoting a healthy environment.

04/14/2023

LOCATION COORDINATES:

ACCESS ROAD ENTRANCE
LATITUDE: 39.555311 LONGITUDE: -80.823601 (NAD 83)
N 4378417.80 E 515154.61 (UTM ZONE 17 METERS)
LATITUDE: 39.555232 LONGITUDE: -80.823776 (NAD 27)

CENTER OF TANK
LATITUDE: 39.550796 LONGITUDE: -80.830994 (NAD 83)
N 4377915.59 E 514520.37 (UTM ZONE 17 METERS)
LATITUDE: 39.550718 LONGITUDE: -80.831169 (NAD 27)

CENTROID OF PAD
LATITUDE: 39.548024 LONGITUDE: -80.836246 (NAD 83)
N 4377607.01 E 514069.68 (UTM ZONE 17 METERS)
LATITUDE: 39.547945 LONGITUDE: -80.836421 (NAD 27)

GENERAL DESCRIPTION:

THE ACCESS ROAD(S), WATER CONTAINMENT PAD, AND WELL PAD HAVE BEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES:

THE SITE IS LOCATED WITHIN FEMA FLOOD ZONE "X" PER FEMA FLOOD MAP #540950075C.

MISS UTILITY STATEMENT:

ANTERO RESOURCES CORPORATION HAS NOTIFIED MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN. IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT:

ANTERO RESOURCES CORPORATION HAVE OBTAINED AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES:

STREAM AND WETLAND DELINEATIONS WERE PERFORMED IN JUNE/JULY, 2021 BY GAI TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP).

GEOTECHNICAL NOTES:

A SUBSURFACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENNSYLVANIA SOIL & ROCK, INC. BETWEEN JULY 19, 2021 - AUGUST 04, 2021 AND FEBRUARY 21-22 2022. THE REPORT PREPARED BY PENNSYLVANIA SOIL & ROCK, INC. DATED SEPTEMBER 03, 2021 REVISED MARCH 03, 2022, REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION.

PROJECT CONTACTS:

ROBERT EDDY - UTILITY COORDINATOR
CELL: (304) 719-5199
MARK HUTSON - LAND AGENT
CELL: (304) 669-8315
ENGINEER/SURVEYOR:
NAVITUS ENGINEERING, INC.
CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER
OFFICE: (888) 662-4185 CELL: (540) 686-6747

OPERATOR:
ANTERO RESOURCES CORPORATION
535 WHITE OAKS BLVD
BRIDGEPORT, WV 26330
PHONE: (304) 842-4100
FAX: (304) 842-4102

ELLI WAGONER - ENVIRONMENTAL ENGINEER & REGULATORY MANAGER
OFFICE: (304) 842-4068 CELL: (304) 476-9770

JON McEVERS - SVP OPERATIONS
OFFICE: (303) 357-6799

AARON KUNZLER - CONSTRUCTION MANAGER
CELL: (304) 842-4191

ROBERT WIRKS - DESIGN MANAGER
OFFICE: (304) 842-4100 CELL: (304) 627-7405

NOTES:

- 1. ALL BMP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIMIT OF DISTURBANCE ARE COMPLETE AND PERMANENTLY STABILIZED. MAINTENANCE MUST INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RUNOFF EVENT IN EXCESS OF 0.5" AND ON A BIWEEKLY BASIS.
2. THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL STABILIZATION MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE.

ED YOST

WELL PAD & WATER CONTAINMENT PAD AS-BUILT EROSION & SEDIMENT CONTROL IMPROVEMENT PLANS

ELLSWORTH DISTRICT, TYLER COUNTY, WV
POINT PLEASANT CREEK WATERSHED

PORTERS FALLS USGS 7.5 QUAD MAP(S)

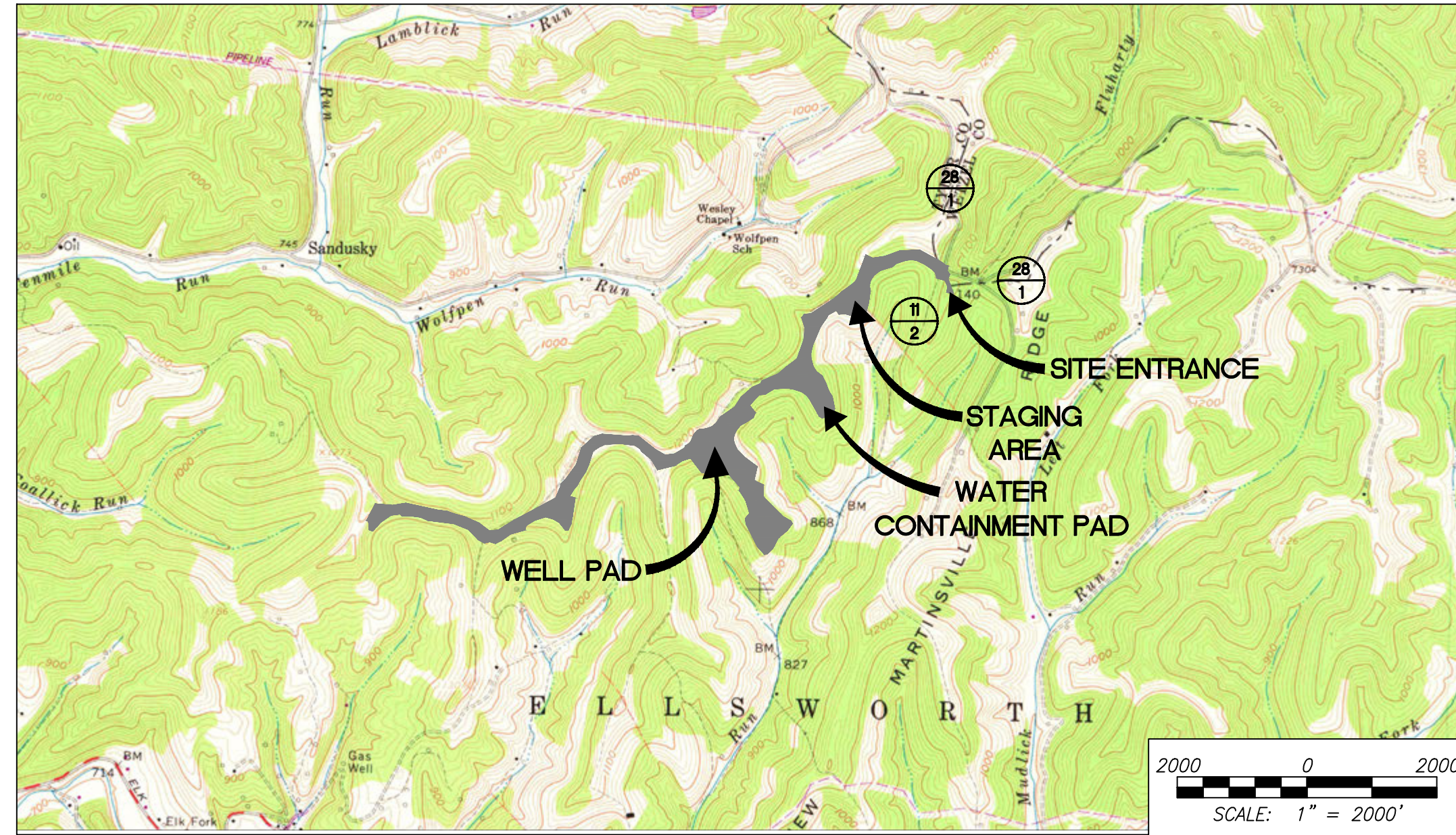
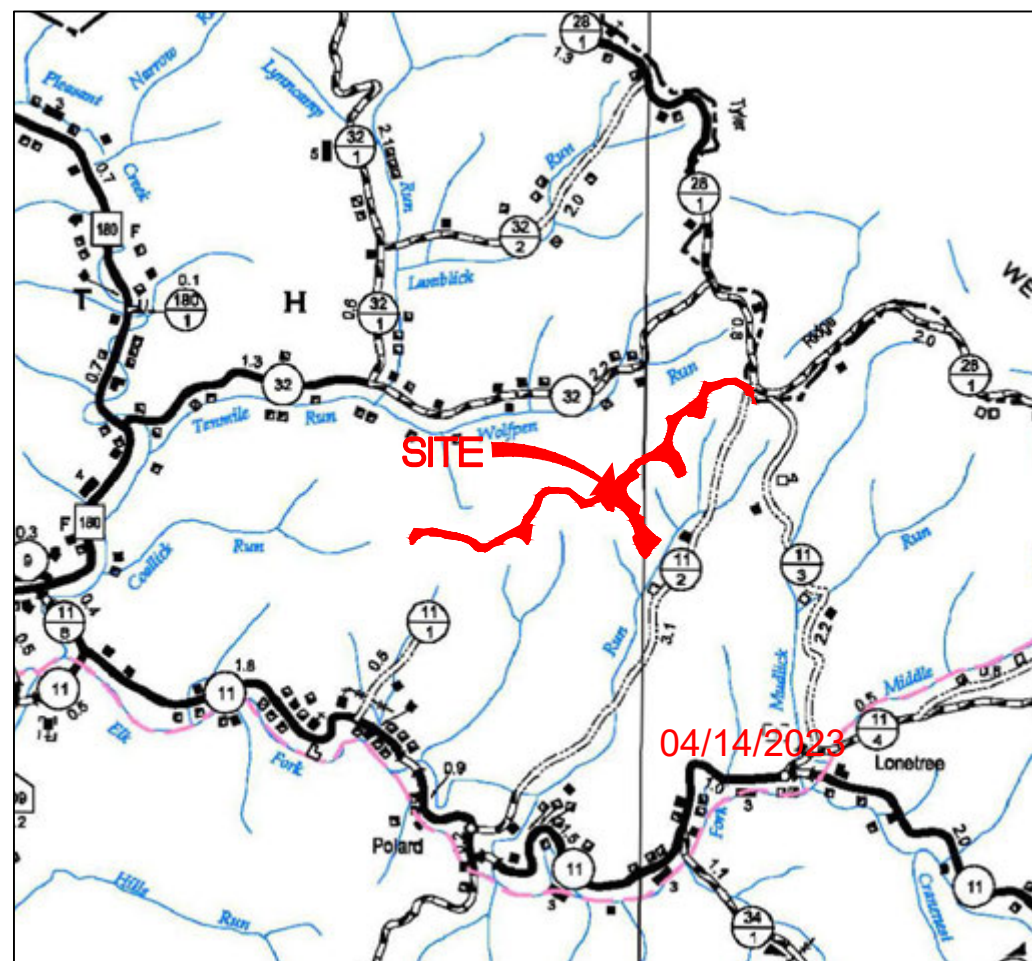


Table with 4 columns: Total Site, Permitted, Modification, Total. Multiple rows detailing impacts to various landowners and areas.

WEST VIRGINIA COUNTY MAP



WVDOH COUNTY ROAD MAP



AS-BUILT CERTIFICATIONS:

THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CRS 35-8.

MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV: Chapter 24-C)
Requires that you call two business days before you dig in the state of West Virginia.
IT'S THE LAW!!

Table titled 'ED YOST EPHEMERAL STREAM IMPACT (LINEAR FEET)' with columns for Stream and Impact Cause, Permanent Impacts, Temp. Impacts, Total Impact (LF).

WEST VIRGINIA STATE PLANE COORDINATE SYSTEM
NORTH ZONE, NAD83
ELEVATION BASED ON NAVD88
ESTABLISHED BY SURVEY GRADE GPS & OPUS
POST-PROCESSING

SHEET INDEX:

- 1 - COVER SHEET
2 - NOTES
3 - LEGEND
4 - OVERALL PLAN SHEET INDEX
5 - ACCESS ROAD AS-BUILT PLAN
6 - ACCESS ROAD & STAGING AREA AS-BUILT PLAN
7 - ACCESS ROAD, WATER CONTAINMENT PAD & STOCKPILE AS-BUILT PLAN

Table with 4 columns: Impact Name, Total Affected Area, Total Wooded Acres Disturbed. Multiple rows detailing impacts to various landowners.

Table with columns: Well Name, WV North NAD 27, NAD 27 Lat & Long, UTM (METERS) ZONE 17, NAD 83 Lat & Long. Rows for CIDER RUN, PEACH FORK, SPLI, and ED YOST UNIT 5H.

Table with columns: DATE, REVISION, REVISED PER LANDOWNER ROAD LOD MOD.

Antero Resources logo and text: THIS DOCUMENT WAS PREPARED FOR: ANTERO RESOURCES CORPORATION

COVER SHEET ED YOST WELL PAD & WATER CONTAINMENT PAD ELLSWORTH DISTRICT TYLER COUNTY, WEST VIRGINIA

Professional Engineer Seal for James J. Courtney, State of West Virginia, No. 15284, Exp. 03/13/2023. DATE: 01/27/2023 SCALE: AS SHOWN SHEET 1 OF 24

NAVITUS ENERGY ENGINEERING logo and contact information: Telephone: (688) 662-4185 | www.NavitusEng.com

LEGEND

LEGEND			
EX. INDEX CONTOUR & CONTOUR LABEL		PR. INDEX CONTOUR (10' INTERVAL) & CONTOUR LABEL	
EX. INTERMEDIATE CONTOUR		PR. INTERMEDIATE CONTOUR (2' INTERVAL)	
EX. PROPERTY LINE		PR. INTERMEDIATE CONTOUR (1' INTERVAL)	
EX. TOP OF BERM		PR. INDEX ROAD CONTOUR (10' INTERVAL) & CONTOUR LABEL	
EX. ROAD EDGE OF GRAVEL/DIRT		PR. INTERMEDIATE ROAD CONTOUR (2' INTERVAL)	
EX. ROAD EDGE OF PAVEMENT		PR. PADS/STOCKPILE TOPO LIMITS	
EX. ROAD CENTERLINE		PERMITTED LIMITS OF DISTURBANCE	
EX. GUARDRAIL		MODIFICATION LIMITS OF DISTURBANCE	
EX. BRIDGE		PR. ROAD/IMPOUNDMENT EDGE OF GRAVEL	
EX. DITCHLINE/DRAINAGE FEATURE		PR. ROAD EDGE OF PAVEMENT	
EX. RIP-RAP		PR. ROAD CENTERLINE	
EX. CULVERT		PR. GUARDRAIL	
EX. TREELINE		PR. ROCK CONSTRUCTION ENTRANCE	
EX. BUILDING		PR. AIR BRIDGE	
EX. MISCELLANEOUS FEATURE		PR. CULVERT	
EX. 100 YR FEMA FLOODPLAIN		PR. DITCH	
EX. DELINEATED STREAM		PR. RIP-RAP TRAPEZOIDAL DITCH	
EX. DELINEATED WETLAND/POND		PR. OUTLET PROTECTION	
100' WETLAND/STREAM BUFFER		PR. ROCK LEVEL SPREADER	
STREAM/WETLAND DELINEATION STUDY AREA		PR. COMPOST FILTER SOCK	
EX. FENCELINE		PR. SMART FENCE HD	
EX. GATE		PR. WELL HEAD	
EX. PERIMETER SAFETY FENCE		PR. PAD DEWATERING SYSTEM	
EX. ACCESS GATE WITH EMERGENCY LIFELINE		PR. TOP OF PAD CONTAINMENT BERM	
EX. WELL HEAD ON DESIGNED PAD		PR. 220' X 320' PAD FOOTPRINT	
EX. GAS WELL		PR. SPOT SHOT	
EX. PIPELINE		PR. PERIMETER SAFETY FENCE	
EX. PIPELINE R/W		PR. ACCESS GATE WITH EMERGENCY LIFELINE	
EX. PIPELINE METER		PR. PIPELINE	
EX. PIPELINE VALVE		PR. PIPELINE R/W	
EX. PIT		PR. OVERHEAD UTILITY	
EX. OVERHEAD UTILITY		PR. POWER POLE/GUY WIRE	
EX. POWER POLE/GUY WIRE		PR. OVERHEAD UTILITY R/W	
EX. UNDERGROUND ELECTRIC		PR. WATERLINE	
EX. UNDERGROUND TELEPHONE		BORING LOCATION	
EX. UNDERGROUND FIBER OPTIC		X-SECTION/PROFILE GRID INDEX	
EX. UTILITY R/W		X-SECTION/PROFILE GRID INTERMEDIATE	
EX. WATERLINE		X-SECTION/PROFILE PROPOSED GRADE	
EX. WATER WELL/EX. SPRING		X-SECTION/PROFILE EXISTING GRADE	
EX. COMPOST SOCK		X-SECTION/PROFILE WATER SURFACE	
EX. SMART FENCE HD		X-SECTION/PROFILE CULVERT	
EX. SILT FENCE		MATCHLINE	
APPROX. LOCATION OF SLIDE AREA		EX. METER	
APPROX. LOCATION OF BORROW/ SPOIL AREA		EX. TANK	
PR. TOE BENCH		EX. COMBUSTOR	
EX. APPROX. SURFACE & SUB-SURFACE ELECTRIC LINE AREA		EX. GPU	
EX. APPROX. SURFACE & SUB-SURFACE DUMP LINE AREA		EX. SEPARATOR	
EX. APPROX. SURFACE & SUB-SURFACE WELL LINE AREA		EX. VRT	
EX. APPROX. SURFACE & SUB-SURFACE SALES LINE AREA		EX. KNOCK-OUT VESSEL	
		EX. STAIRS/CATWALK	
		EX. DEWATERING SYSTEM	
		EX. PIG LAUNCHER	
		EX. SECONDARY CONTAINMENT	
		EX. ABOVE-GND VAPOR LINE	
		EX. ESD	
		EX. MAILBOX	
		EX. CONTROL PT.	
		EX. MUSTER AREA	

04/14/2023

APPROVED
WVDEP OOG
MODIFICATION
4/12/2023

DATE	REVISION
03/13/2023	REVISED PER LANDOWNER ROAD LOD MOD

Antero
Resources
THIS DOCUMENT
WAS PREPARED FOR:
ANTERO RESOURCES
CORPORATION

LEGEND
ED YOST
WELL PAD & WATER CONTAINMENT PAD
ELLSWORTH DISTRICT
TYLER COUNTY, WEST VIRGINIA



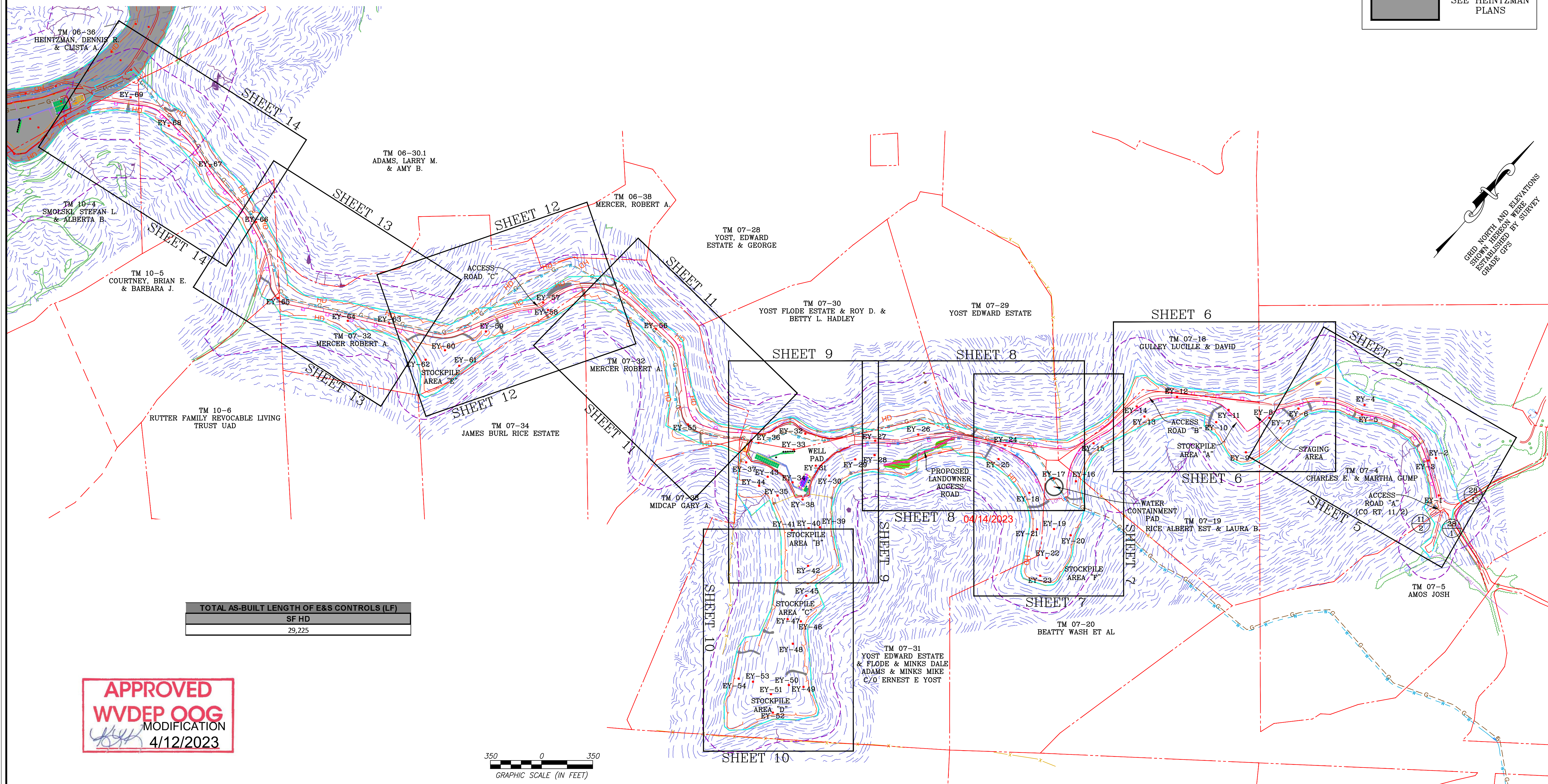
OVERALL PLAN SHEET INDEX

GENERAL NOTES:

1. THE TOPOGRAPHIC AND PROPERTY LINE INFORMATION SHOWN HEREON IS BASED ON INFORMATION PROVIDED BY ANTERO MAY, 2021.
2. AS-BUILT INFORMATION SHOWN HEREON IS BASED ON FIELD SURVEY PERFORMED BY NAVITUS ENGINEERING, INC. ON JANUARY 19, 2023.
3. THE PROPERTY LINES SHOWN HEREON DO NOT REPRESENT A BOUNDARY SURVEY ON ANY OF THE PARCELS SHOWN. PROPERTY CORNERS AND LINES PERTINENT TO WELL LOCATION ARE BASED ON A FIELD SURVEY. THE REMAINDER OF THE PROPERTY LINES ARE BASED ON COUNTY REAL ESTATE TAX MAPS, GIS INFORMATION AND DEEDS OF RECORD.
4. UTILITIES AND THEIR LOCATIONS AS SHOWN HEREON ARE BASED ON: A) OBSERVABLE EVIDENCE OF THOSE VISIBLE, ABOVE-GROUND FACILITIES, FEATURES, AND MARKERS WHICH WERE FOUND ON THE SUBJECT PROPERTY AT THE TIME OF SURVEY PERFORMED BY NAVITUS ENGINEERING AND B) FIELD MARKINGS PLACED BY UTILITY COMPANIES IN RESPONSE TO THE WV 811 TICKET SUBMITTED BY NAVITUS ENGINEERING. NAVITUS ENGINEERING CANNOT GUARANTEE THE ACCURACY OF THE UTILITY MARKINGS PERFORMED BY OTHERS OR THAT ALL UTILITIES EXISTING WITHIN THE LIMITS OF THIS PLAN ARE SHOWN. ANY UTILITIES ENCOUNTERED SUBSEQUENT TO PLAN APPROVAL OR DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE PLAN SHOULD BE REPORTED TO NAVITUS ENGINEERING AND ANTERO RESOURCES CORPORATION.

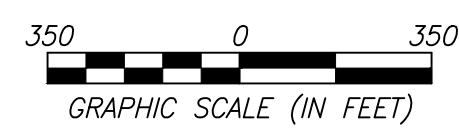
**LIMITS OF DISTURBANCE
LEGEND**

SEE HEINTZMAN PLANS



TOTAL AS-BUILT LENGTH OF E&S CONTROLS (LF)	
SF HD	29,225

APPROVED
WVDEP OOG
MODIFICATION
4/12/2023



DATE	REVISION
03/13/2023	REVISED PER LANDOWNER ROAD LOD MOD

Antero Resources

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OVERALL PLAN SHEET INDEX

ED YOST

WELL PAD & WATER CONTAINMENT PAD

ELLSWORTH DISTRICT

TYLER COUNTY, WEST VIRGINIA



DATE: 01/27/2023

SCALE: 1" = 350'

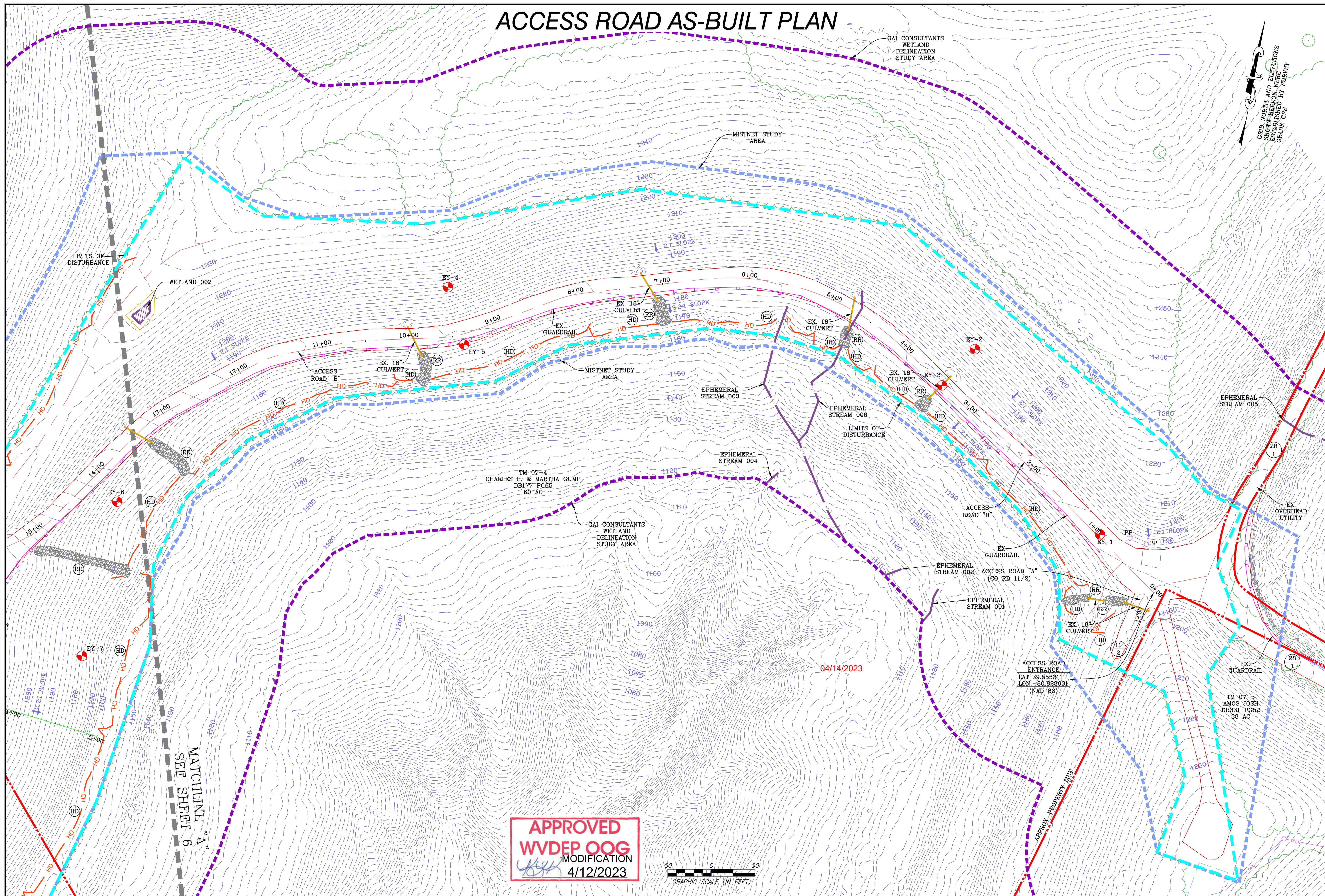
SHEET 4 OF 24

NAVITUS

ENERGY ENGINEERING

Telephone: (868) 662-4165 | www.NavitusEng.com

ACCESS ROAD AS-B-BUILT PLAN



GRID NORTH AND ELEVATIONS SHOWN HEREON WERE ESTABLISHED BY SURVEY GRADE GPS

NAVITUS
ENERGY ENGINEERING
Telephone: (868) 662-4165 | www.NavitusEng.com

DATE	REVISION
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ANTERO RESOURCES CORPORATION

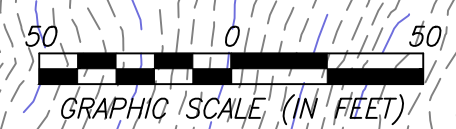
ED YOST
WELL PAD & WATER CONTAINMENT PAD
ELLSWORTH DISTRICT
TYLER COUNTY, WEST VIRGINIA

04/14/2023

03/13/2023

DATE: 01/27/2023
SCALE: 1" = 50'
SHEET 5 OF 24

APPROVED
WVDEP OOG
MODIFICATION
4/12/2023



MATCHLINE A SEE SHEET 6

LIMITS OF DISTURBANCE

WETLAND 002

MISTNET STUDY AREA

GAI CONSULTANTS WETLAND DELINEATION STUDY AREA

TM 07-4
CHARLES E. & MARTHA GUMP
DB177 PG65
60 AC

GAI CONSULTANTS WETLAND DELINEATION STUDY AREA

ACCESS ROAD ENTRANCE
LAT: 39.555311
LON: -80.823601
(NAD 83)

TM 07-5
AMOS JOSH
DB331 PG52
39 AC

EX OVERHEAD UTILITY

ACCESS ROAD "A"
(CO RD 11/2)

ACCESS ROAD "B"

ACCESS ROAD "B"

EPHEMERAL STREAM 003

EPHEMERAL STREAM 006

EPHEMERAL STREAM 005

EPHEMERAL STREAM 004

EPHEMERAL STREAM 002

EPHEMERAL STREAM 001

EX 18" CULVERT

EX 18" CULVERT

EX 18" CULVERT

EX 18" CULVERT

EX 18" CULVERT

EX GUARDRAIL

EX GUARDRAIL

EX GUARDRAIL

EY-6

EY-4

EY-5

EY-2

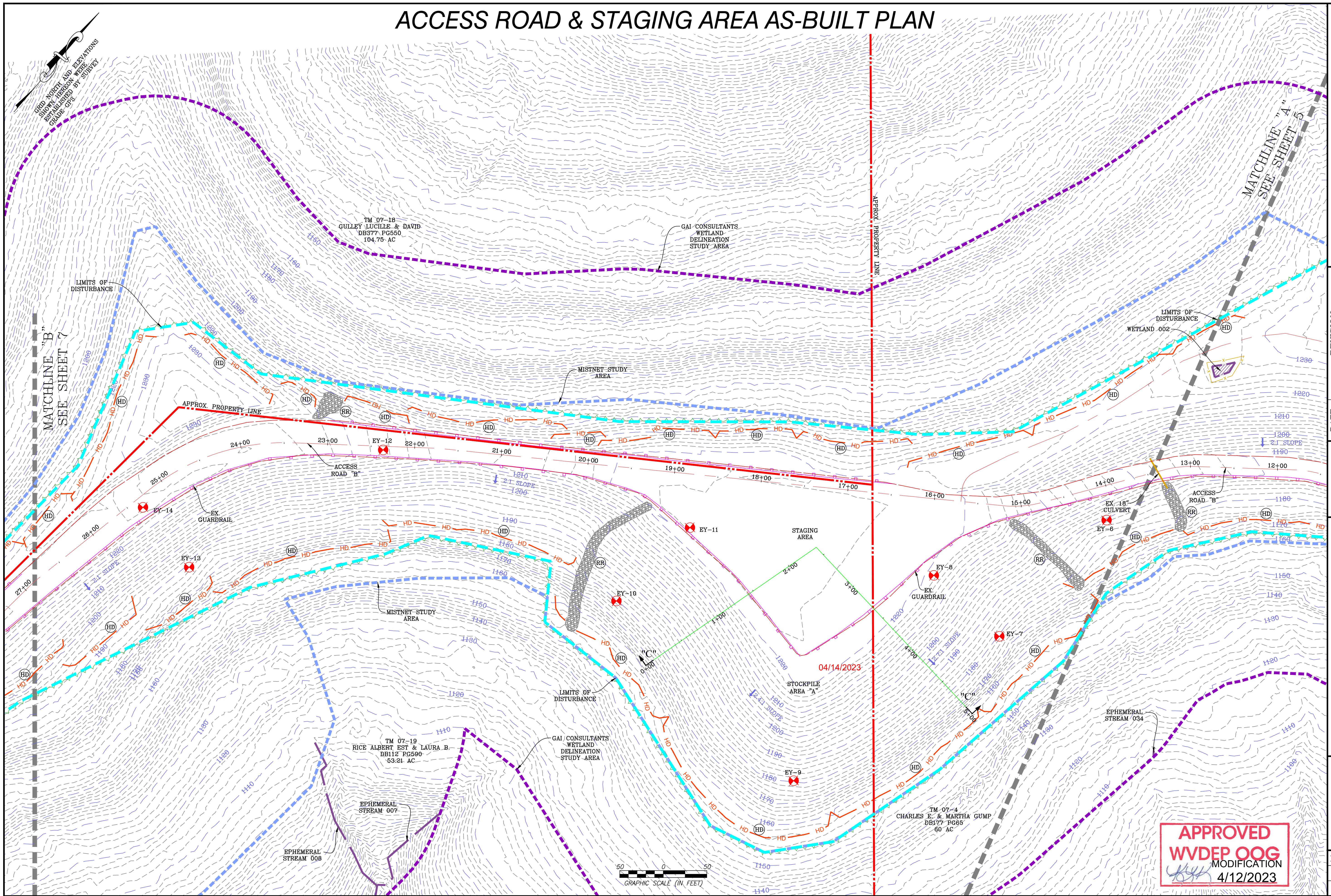
EY-3

EY-1

EY-7

MATCHLINE A SEE SHEET 6

ACCESS ROAD & STAGING AREA AS-BUILT PLAN



DATE	REVISION
03/13/2023	REVISED PER LANDOWNER ROAD LOD MOD

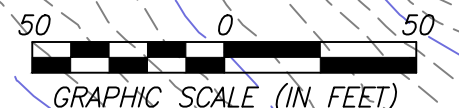
Antero Resources
THIS DOCUMENT WAS PREPARED FOR:
ANTERO RESOURCES CORPORATION

ACCESS ROAD & STAGING AREA AS-BUILT PLAN
ED YOST
WELL PAD & WATER CONTAINMENT PAD
ELLSWORTH DISTRICT
TYLER COUNTY, WEST VIRGINIA

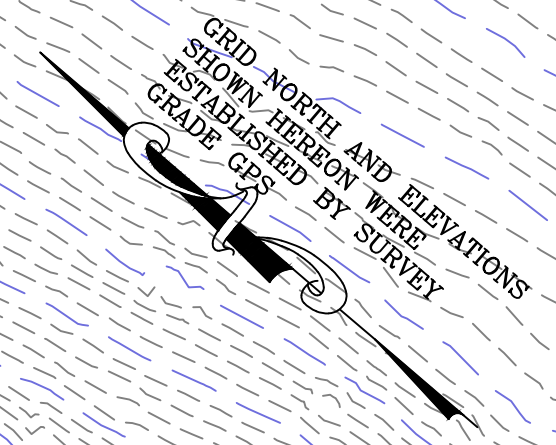


DATE: 01/27/2023
SCALE: 1" = 50'
SHEET 6 OF 24

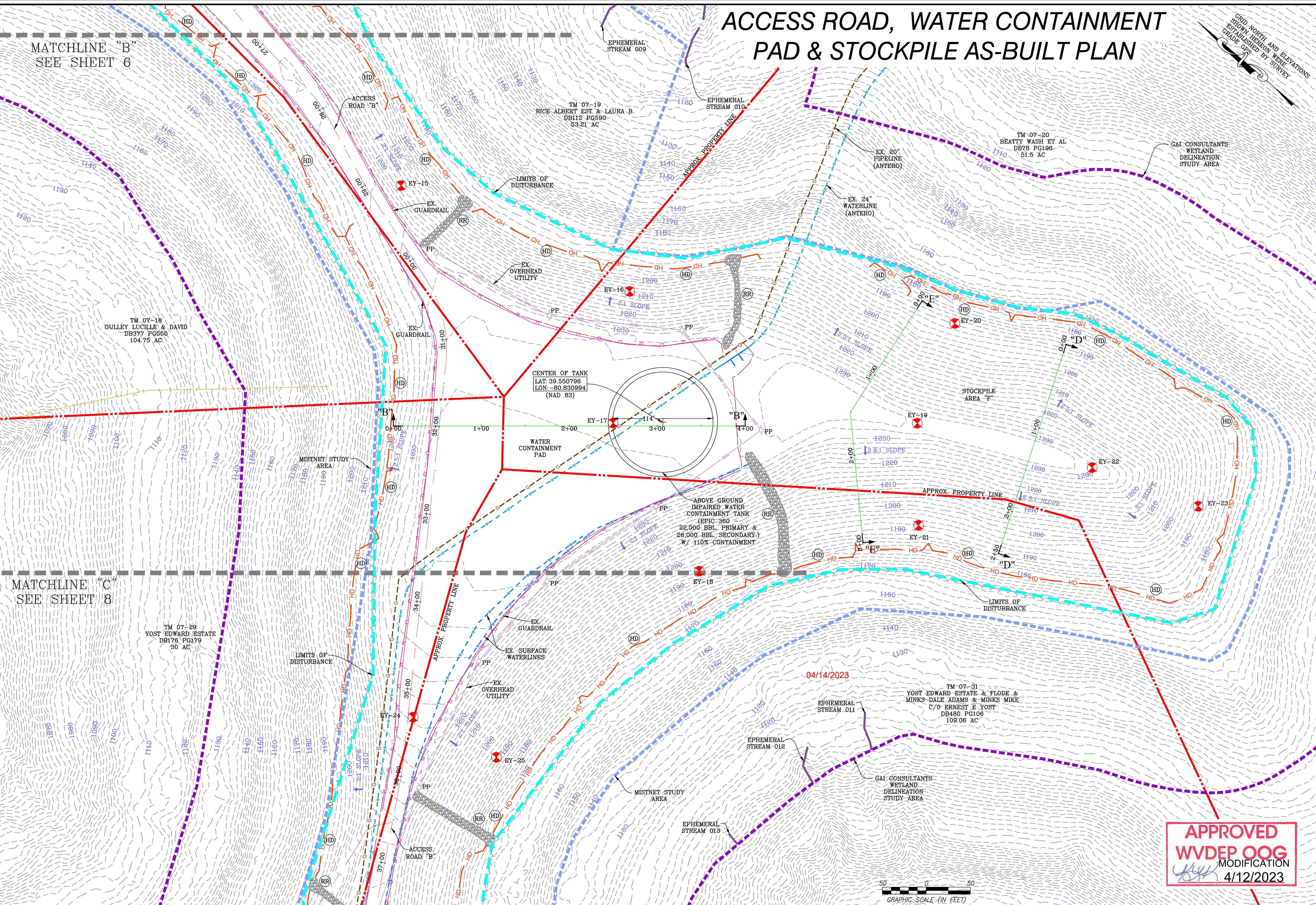
APPROVED
WV DEP OOG
MODIFICATION
4/12/2023



ACCESS ROAD, WATER CONTAINMENT PAD & STOCKPILE AS-BUILT PLAN



MATCHLINE "B"
SEE SHEET 6



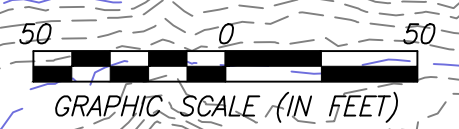
MATCHLINE "C"
SEE SHEET 8

CENTER OF TANK
LAT: 39.550796
LON: -80.830994
(NAD 83)

ABOVE GROUND IMPAIRED WATER CONTAINMENT TANK (EPIC-360)
22,000 BBL. PRIMARY & 26,000 BBL. SECONDARY
W/ 110% CONTAINMENT

TM 07-31
YOST EDWARD ESTATE & FLODE & MINKS DALE ADAMS & MINKS MIKE
C/O ERNEST E YOST
DB480 PG106
109.06 AC

APPROVED
WVDEP OOG
MODIFICATION
4/12/2023



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03/13/2023	REVISED PER LANDOWNER ROAD LOD MOD

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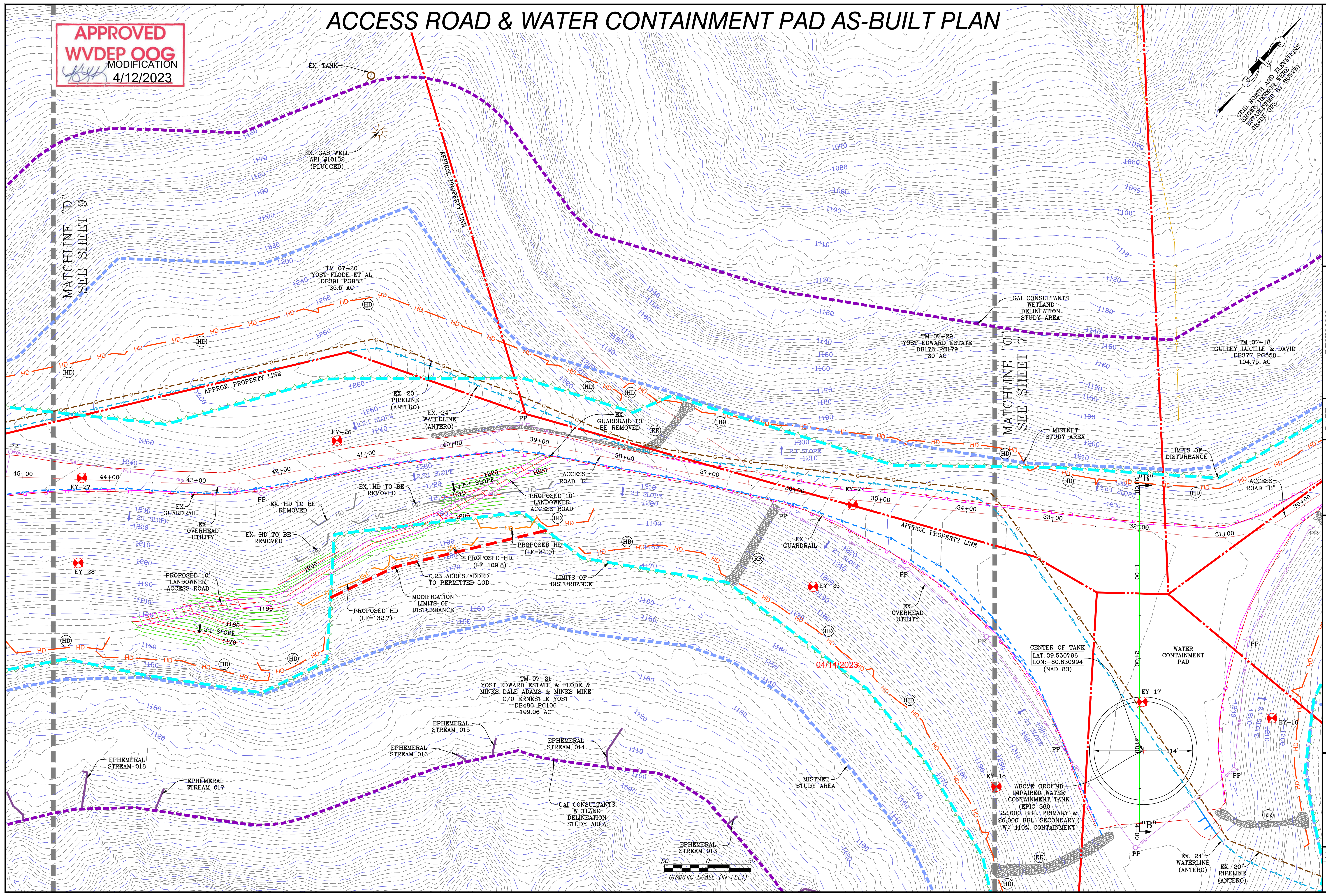
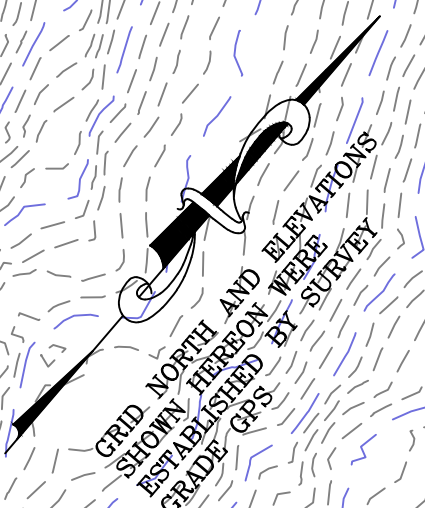
ACCESS ROAD, WATER CONTAINMENT PAD & STOCKPILE AS-BUILT PLAN
ED YOST
WELL PAD & WATER CONTAINMENT PAD
ELLSWORTH DISTRICT
TYLER COUNTY, WEST VIRGINIA



DATE: 01/27/2023
SCALE: 1" = 50'
SHEET 7 OF 24

ACCESS ROAD & WATER CONTAINMENT PAD AS-BUILT PLAN

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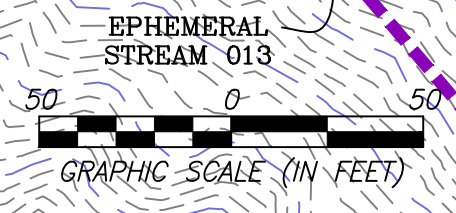
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 WELL PAD & WATER CONTAINMENT PAD
 ELLSWORTH DISTRICT
 TYLER COUNTY, WEST VIRGINIA



DATE: 01/27/2023
 SCALE: 1" = 50'
 SHEET 8 OF 24



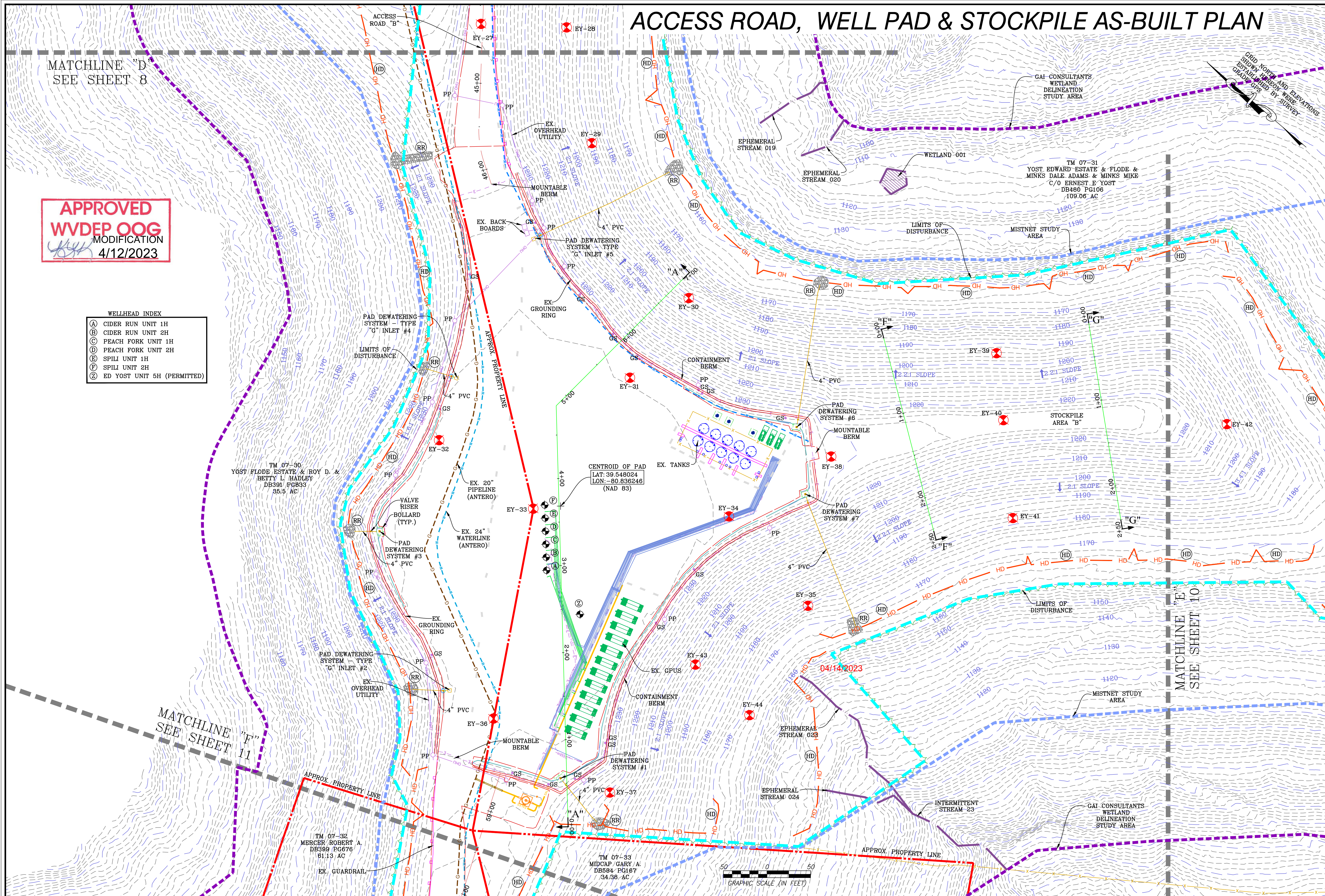
ACCESS ROAD, WELL PAD & STOCKPILE AS-BUILT PLAN

MATCHLINE "D"
SEE SHEET 8

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MODIFICATION
4/12/2023

WELLHEAD INDEX

(A)	CIDER RUN UNIT 1H
(B)	CIDER RUN UNIT 2H
(C)	PEACH FORK UNIT 1H
(D)	PEACH FORK UNIT 2H
(E)	SPILL UNIT 1H
(F)	SPILL UNIT 2H
(Z)	ED YOST UNIT 5H (PERMITTED)



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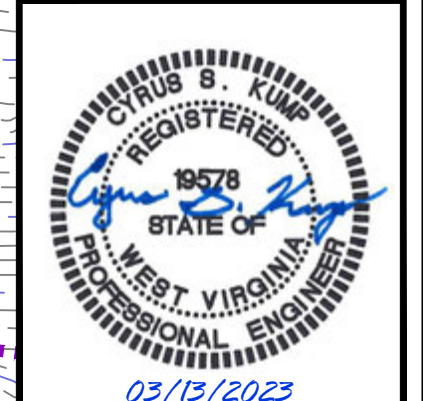
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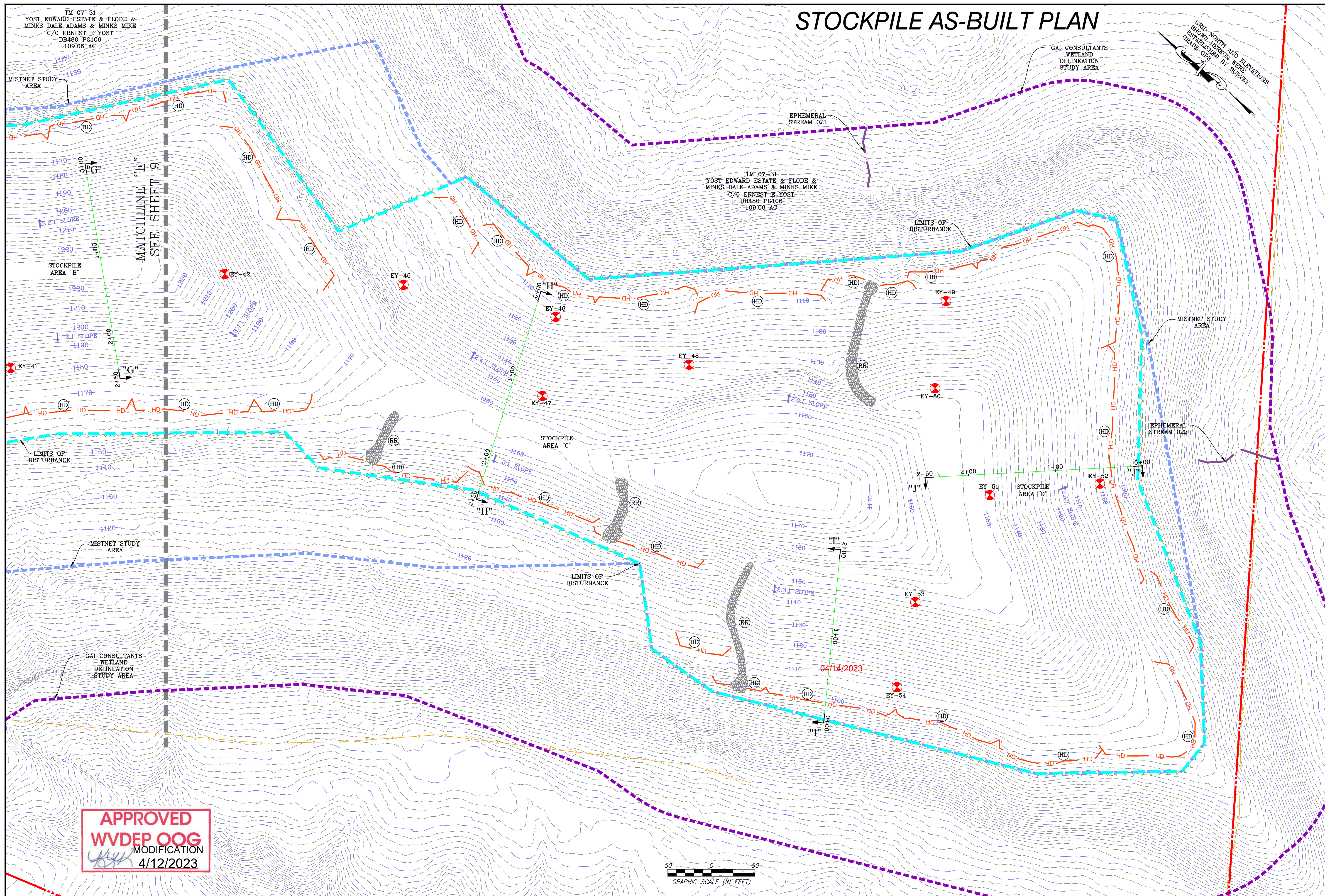
ACCESS ROAD & WELL PAD & STOCKPILE AS-BUILT PLAN

ED YOST
WELL PAD & WATER CONTAINMENT PAD
ELLSWORTH DISTRICT
TYLER COUNTY, WEST VIRGINIA



DATE: 01/27/2023
SCALE: 1" = 50'
SHEET 9 OF 24

STOCKPILE AS-BUILT PLAN



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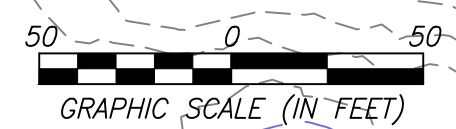
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STOCKPILE AS-BUILT PLAN

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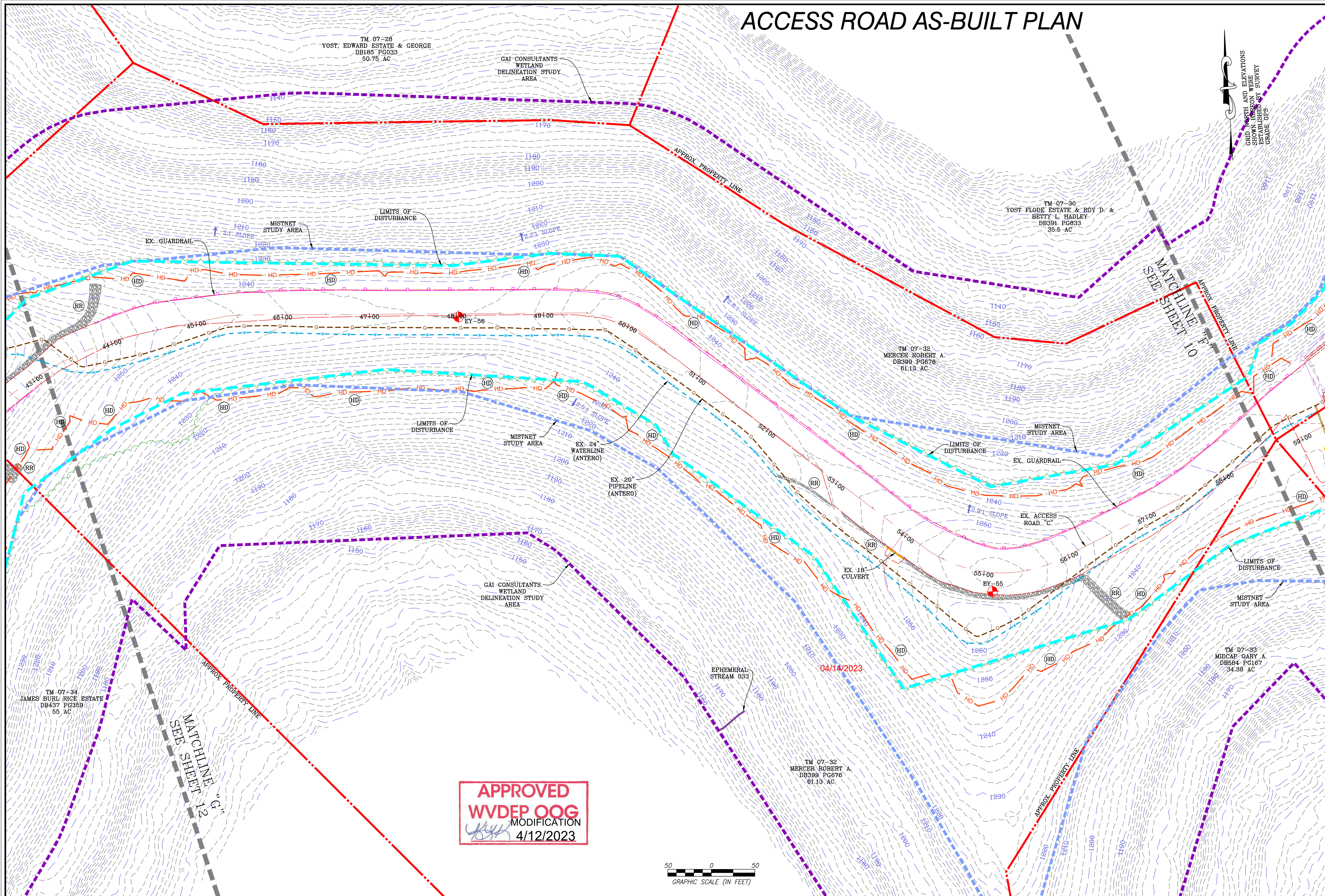


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DATE: 01/27/2023
SCALE: 1" = 50'
SHEET 10 OF 24

ACCESS ROAD AS-BUILT PLAN



TM 07-28
YOST, EDWARD ESTATE & GEORGE
DB185 PG033
50.75 AC

GAI CONSULTANTS
WETLAND
DELINEATION STUDY AREA

TM 07-30
YOST FLODE ESTATE & ROY D. &
BETTY L. HADLEY
DB391 PG833
35.6 AC

TM 07-32
MERCER ROBERT A.
DB399 PG676
61.13 AC

TM 07-34
JAMES BURL RICE ESTATE
DB437 PG359
55 AC

GRID NORTH AND ELEVATIONS
SHOWN HEREON WERE
ESTABLISHED BY SURVEY
GRADE C.T.S.

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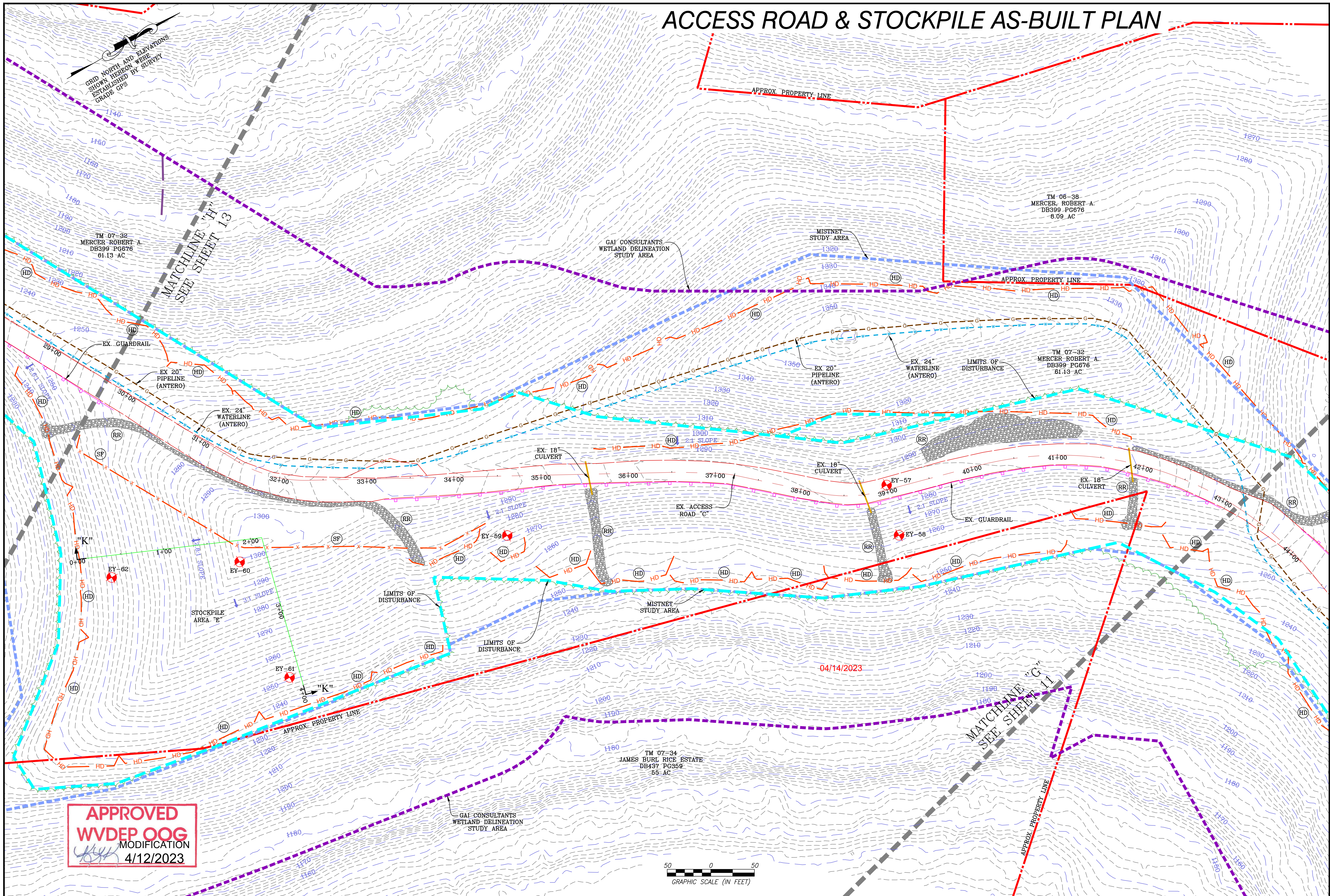
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DATE: 01/27/2023
SCALE: 1" = 50'
SHEET 11 OF 24

ACCESS ROAD & STOCKPILE AS-BUILT PLAN



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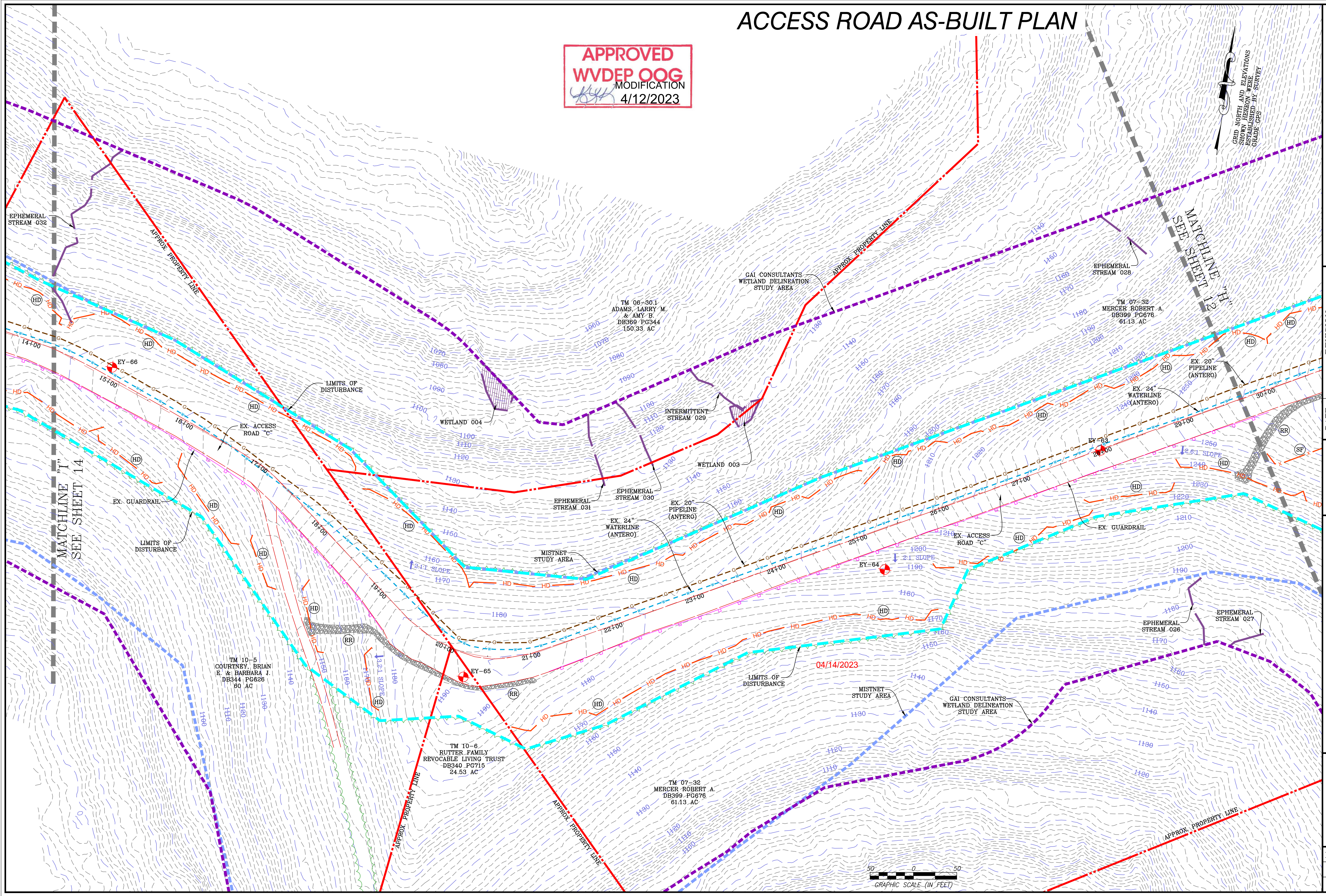


DATE: 01/27/2023
 SCALE: 1" = 50'
 SHEET 12 OF 24

ACCESS ROAD AS-BUILT PLAN

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GRID NORTH AND ELEVATIONS
 SHOWN HERE AROUND WERE
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 GRADE GPS



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ACCESS ROAD AS-BUILT PLAN
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 WELL PAD & WATER CONTAINMENT PAD
 ELLSWORTH DISTRICT
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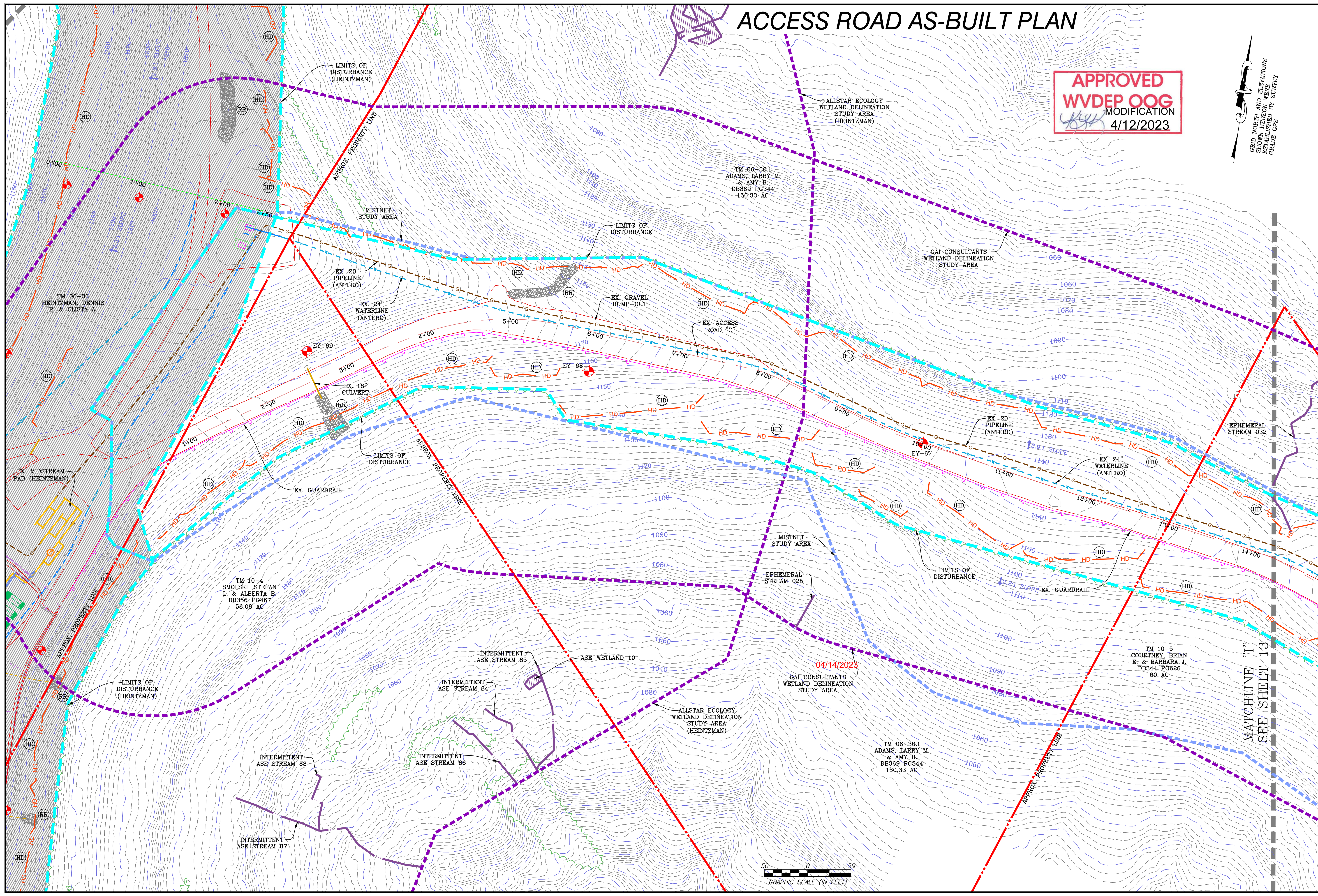
DATE: 01/27/2023
 SCALE: 1" = 50'
 SHEET 13 OF 24

ACCESS ROAD AS-BUILT PLAN

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GRID NORTH AND ELEVATIONS
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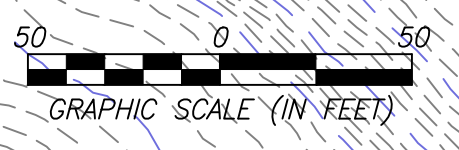
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 TYLER COUNTY, WEST VIRGINIA



DATE: 01/27/2023
 SCALE: 1" = 50'
 SHEET 14 OF 24

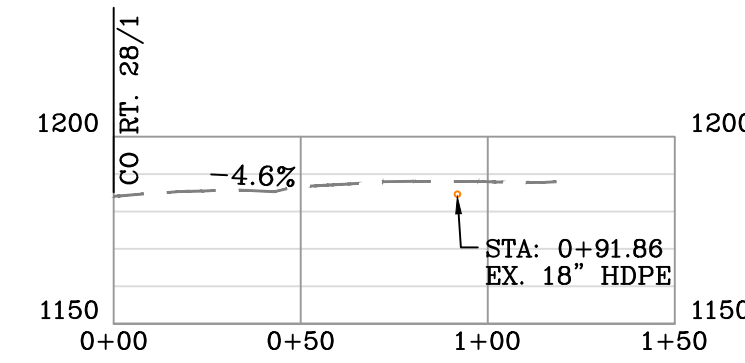


MATCHLINE "1"
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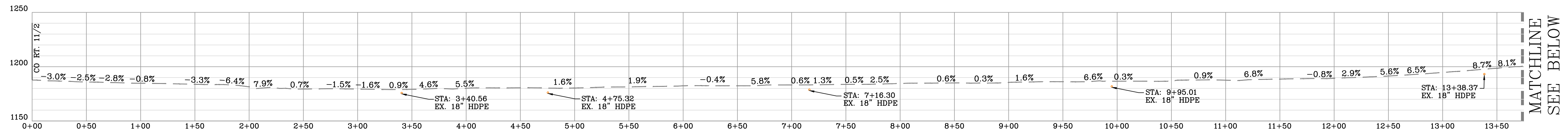
04/14/2023

ACCESS ROAD AS-BUILT PROFILES

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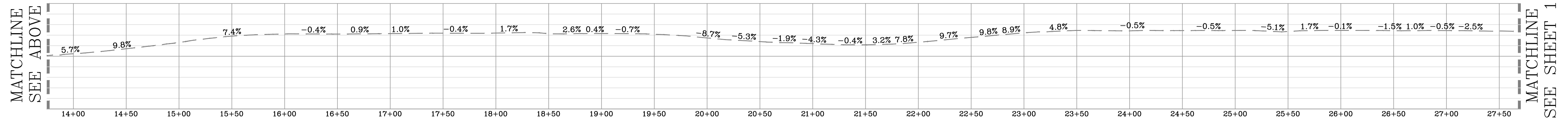


ACCESS ROAD "A" (CO RT. 11/2) AS-BUILT PROFILE
 SCALE: HORIZ. 1" = 50' VERT. 1" = 50'



ACCESS ROAD "B" AS-BUILT PROFILE
 SCALE: HORIZ. 1" = 50' VERT. 1" = 50'

04/14/2023



ACCESS ROAD "B" AS-BUILT PROFILE
 SCALE: HORIZ. 1" = 50' VERT. 1" = 50'

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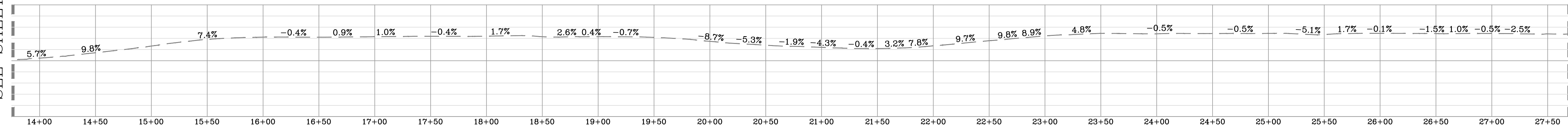
ACCESS ROAD AS-BUILT PROFILES
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ACCESS ROAD AS-BUILT PROFILES

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[Signature] 4/12/2023

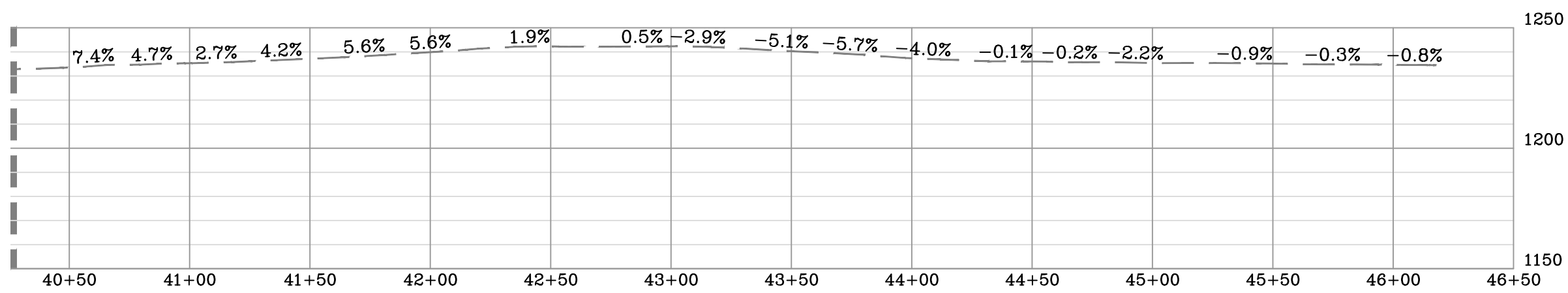
MATCHLINE
SEE SHEET 15



MATCHLINE
SEE BELOW

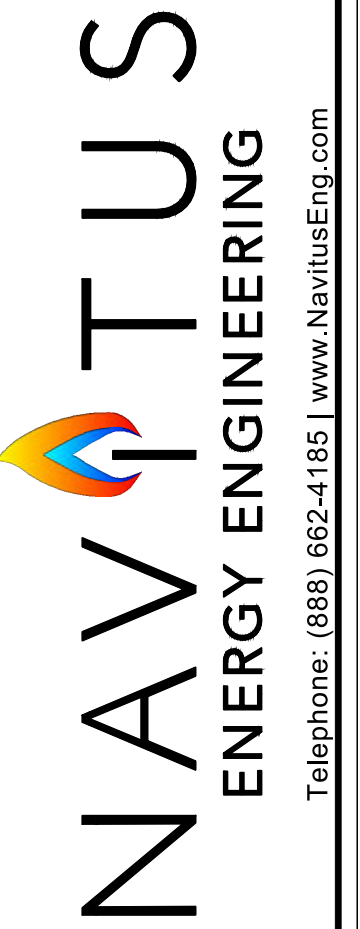
ACCESS ROAD "B" AS-BUILT PROFILE
 SCALE: HORIZ. 1" = 50' VERT. 1" = 50'

MATCHLINE
SEE ABOVE



ACCESS ROAD "B" AS-BUILT PROFILE
 SCALE: HORIZ. 1" = 50' VERT. 1" = 50'

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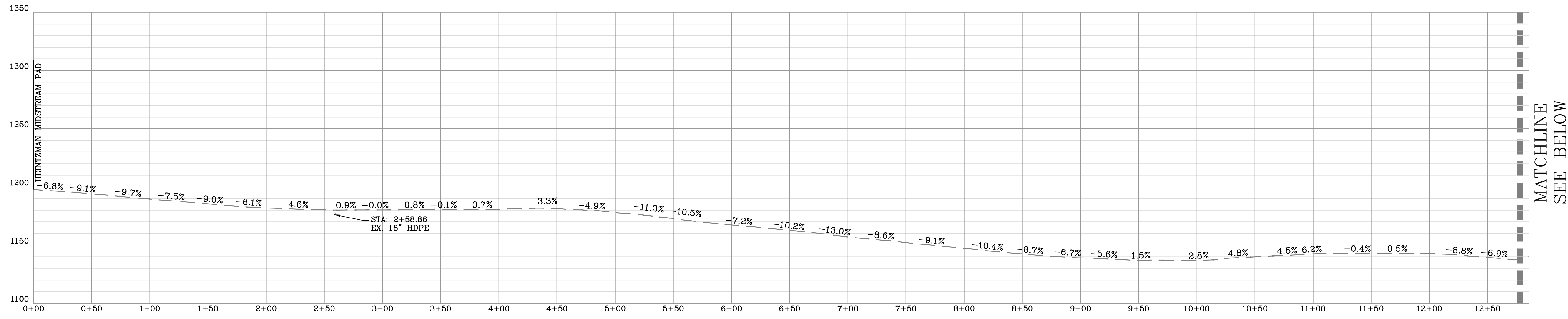
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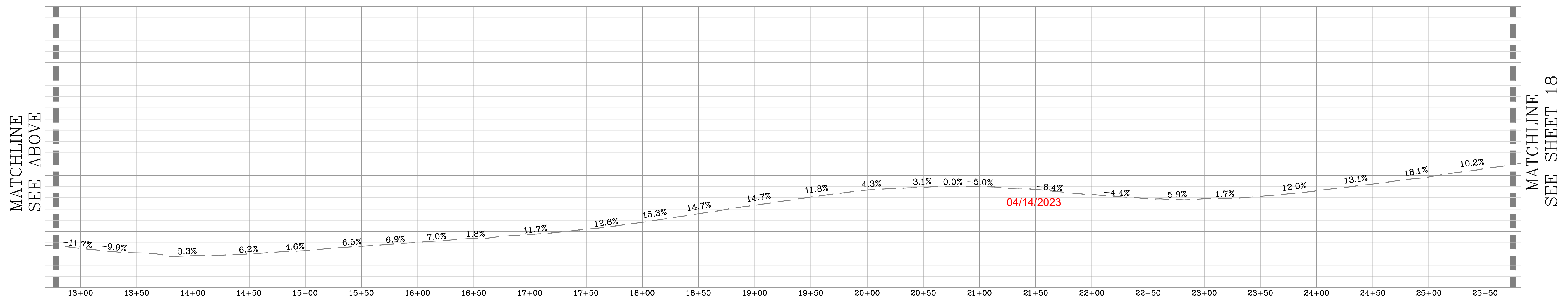
DATE: 01/27/2023
 SCALE: AS SHOWN
 SHEET 16 OF 24

ACCESS ROAD AS-BUILT PROFILES

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ACCESS ROAD "C" AS-BUILT PROFILE
 SCALE: HORIZ. 1" = 50' VERT. 1" = 50'



ACCESS ROAD "C" AS-BUILT PROFILE
 SCALE: HORIZ. 1" = 50' VERT. 1" = 50'

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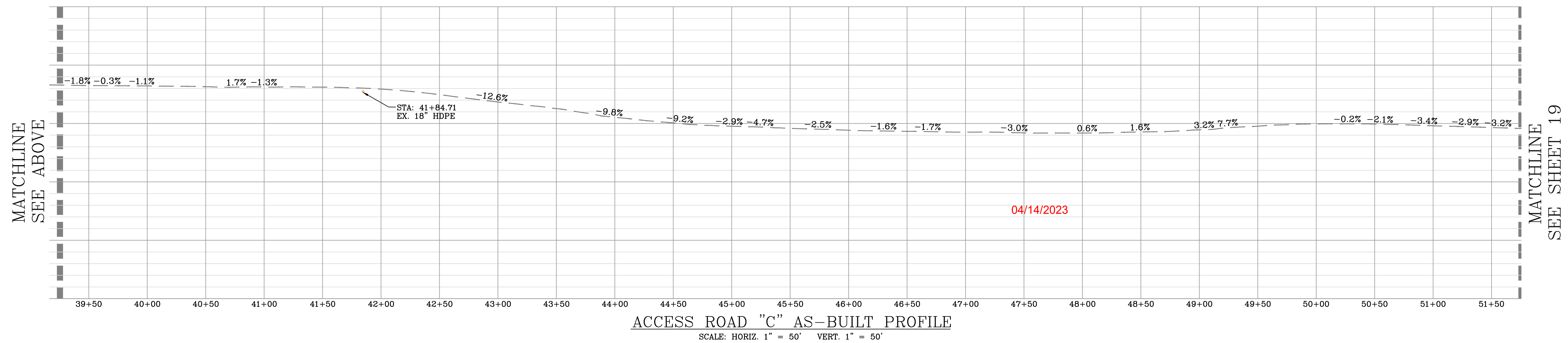
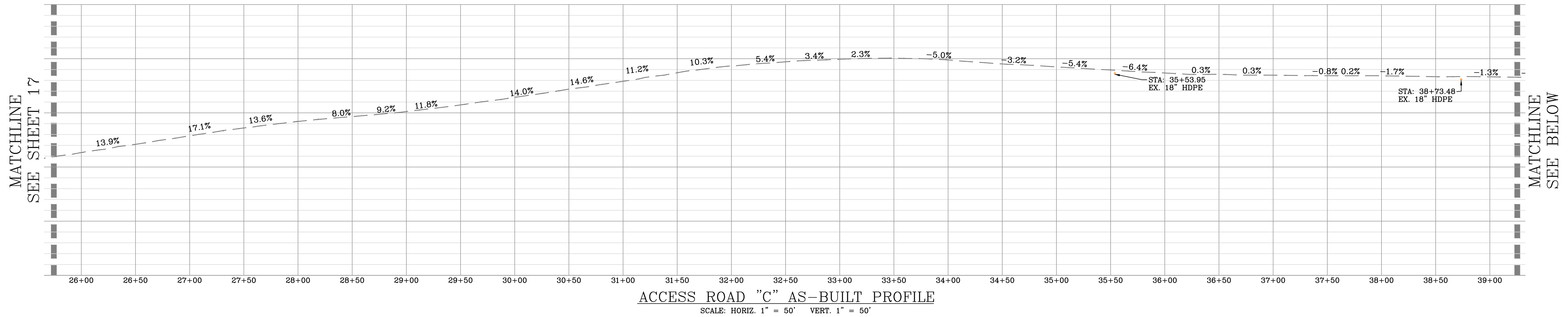
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ACCESS ROAD AS-BUILT PROFILES

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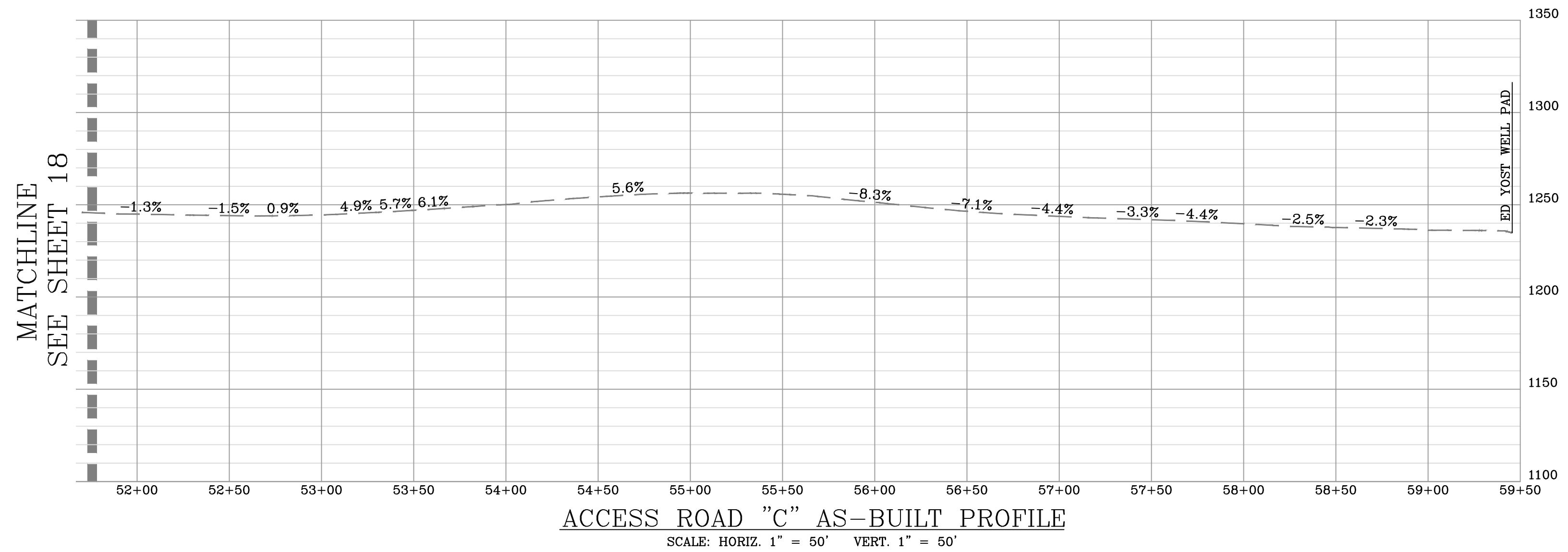
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ACCESS ROAD AS-BUILT PROFILES

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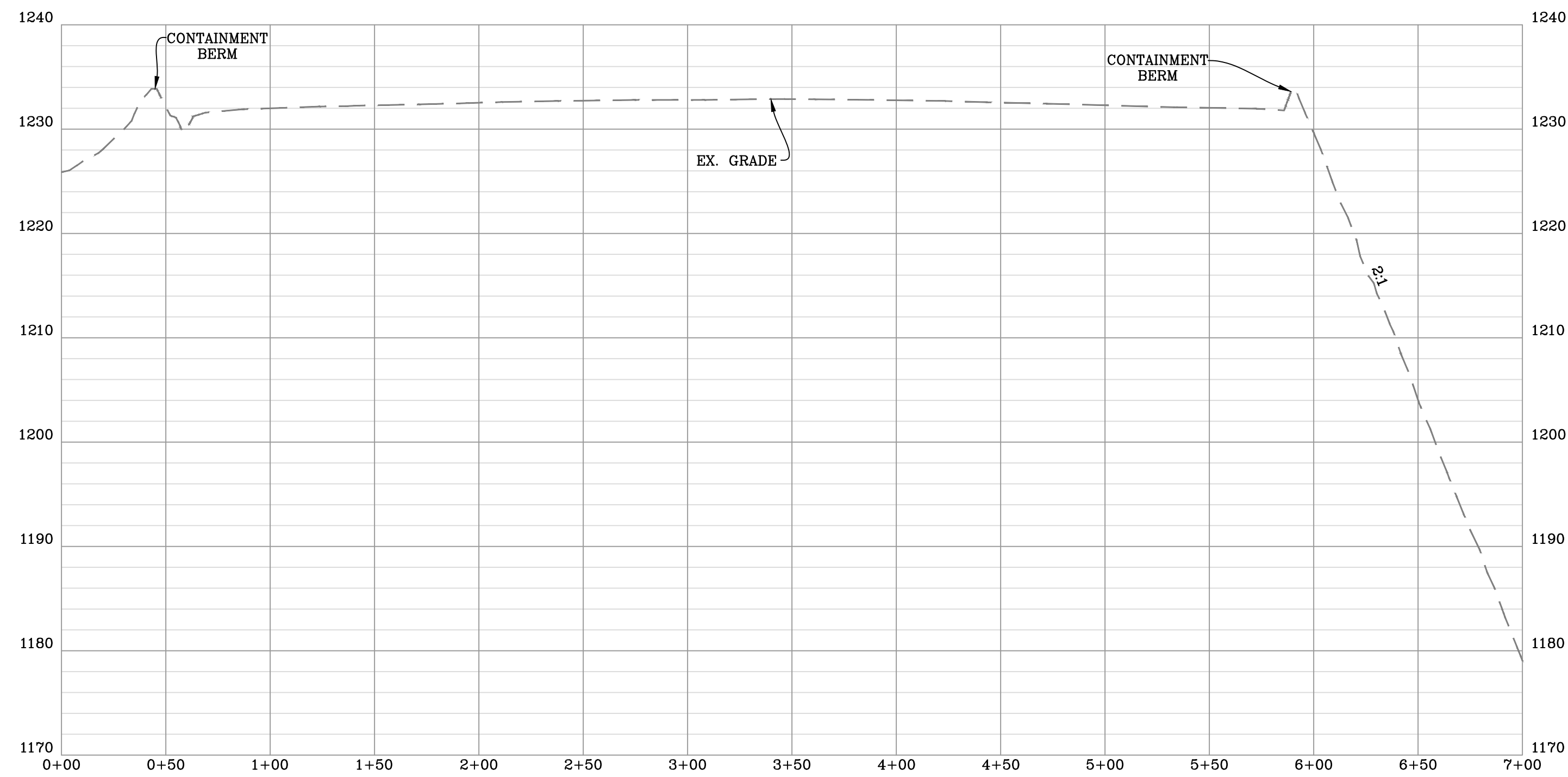
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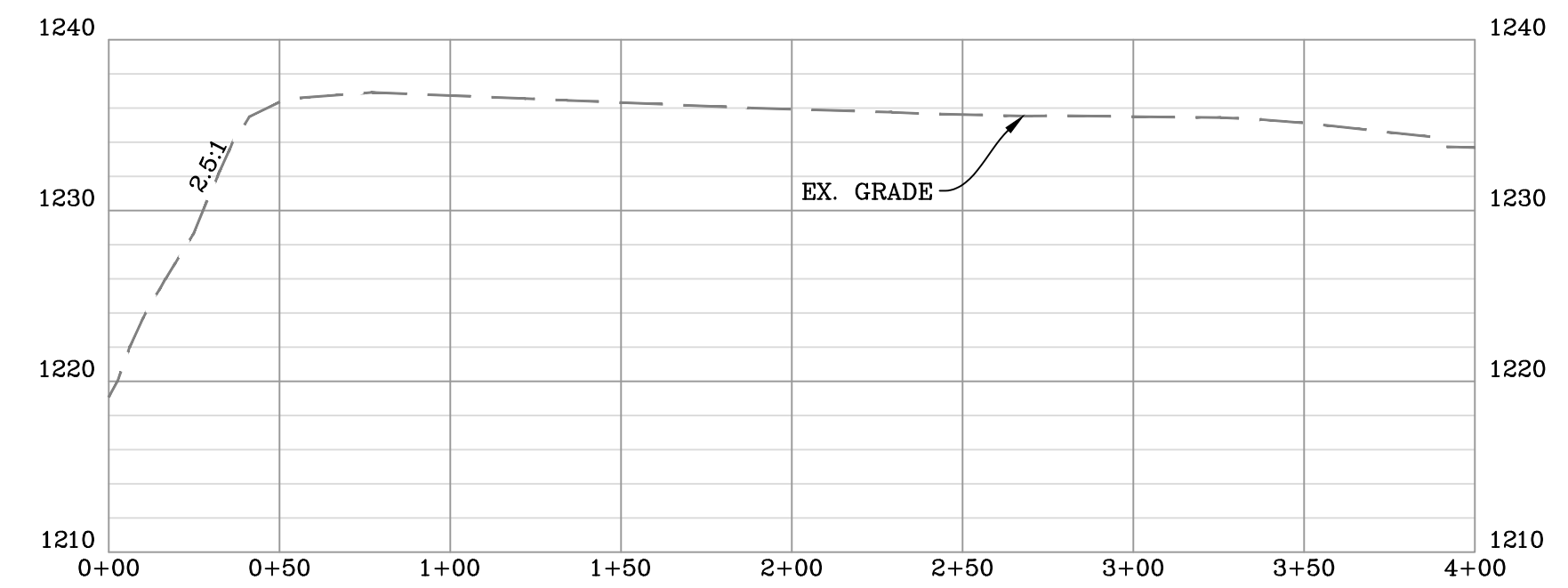
DATE: 01/27/2023
 SCALE: AS SHOWN
 SHEET 19 OF 24

WELL PAD, WATER CONTAINMENT PAD, STAGING AREA & STOCKPILE AS-BUILT SECTIONS

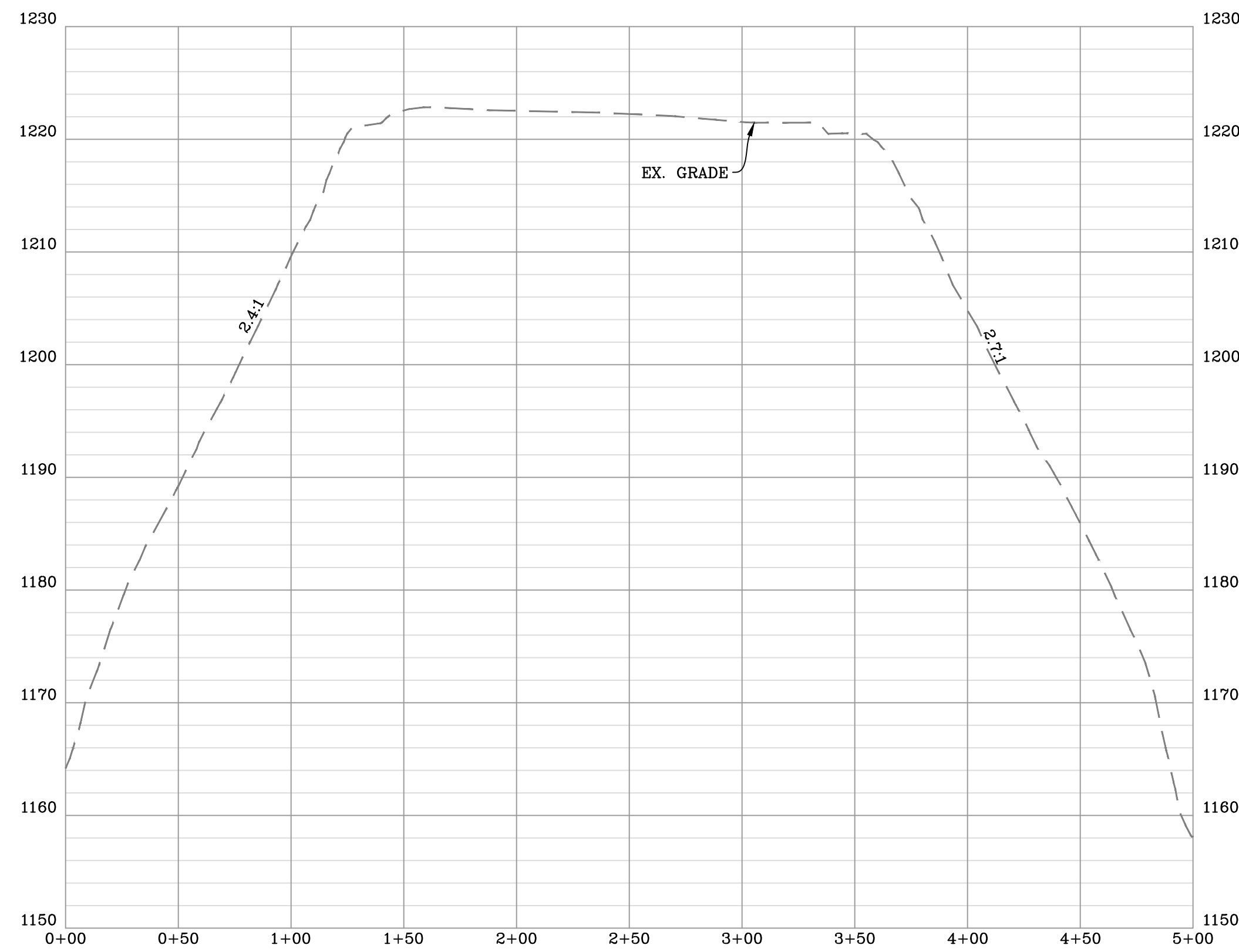
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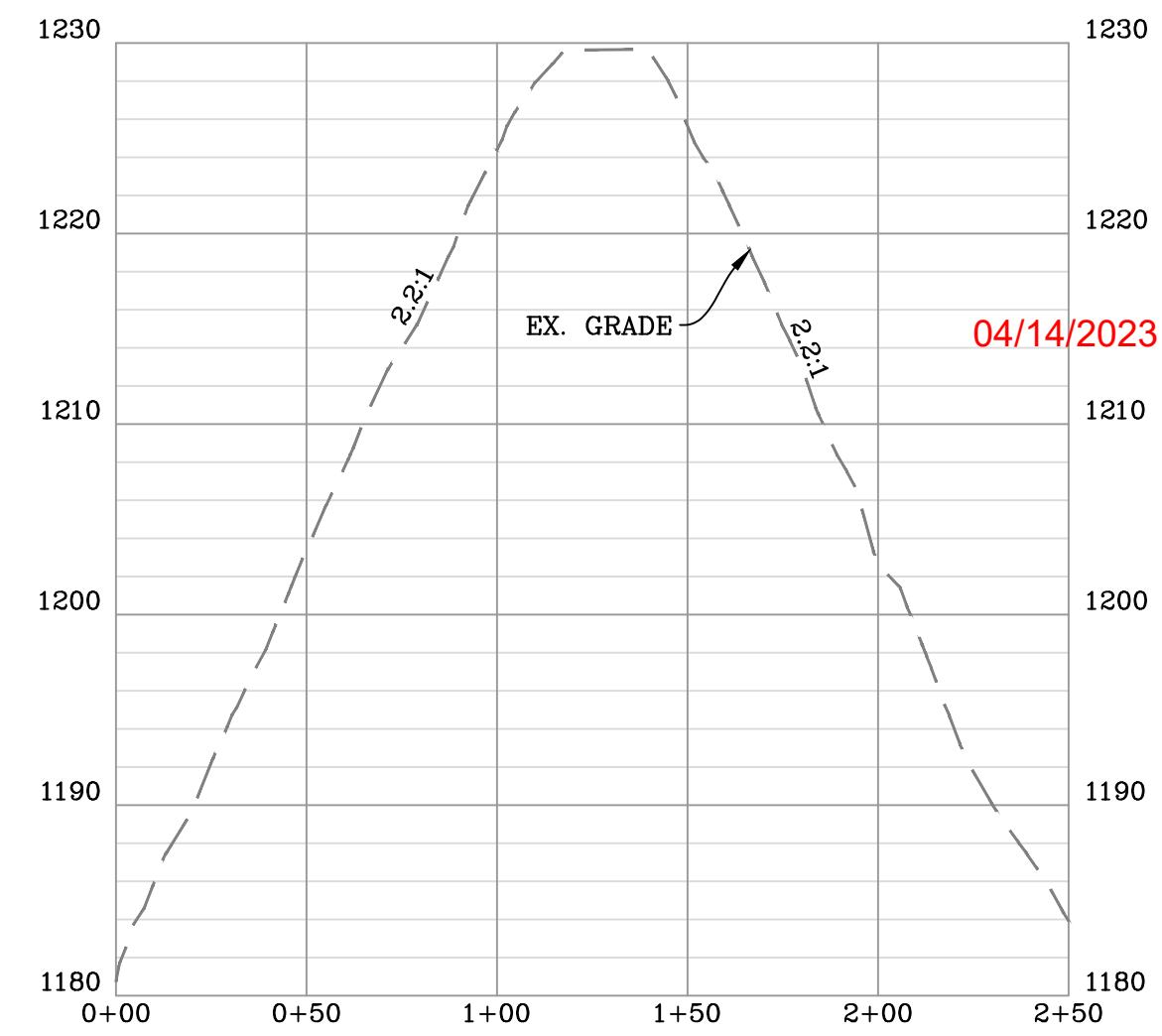
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 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



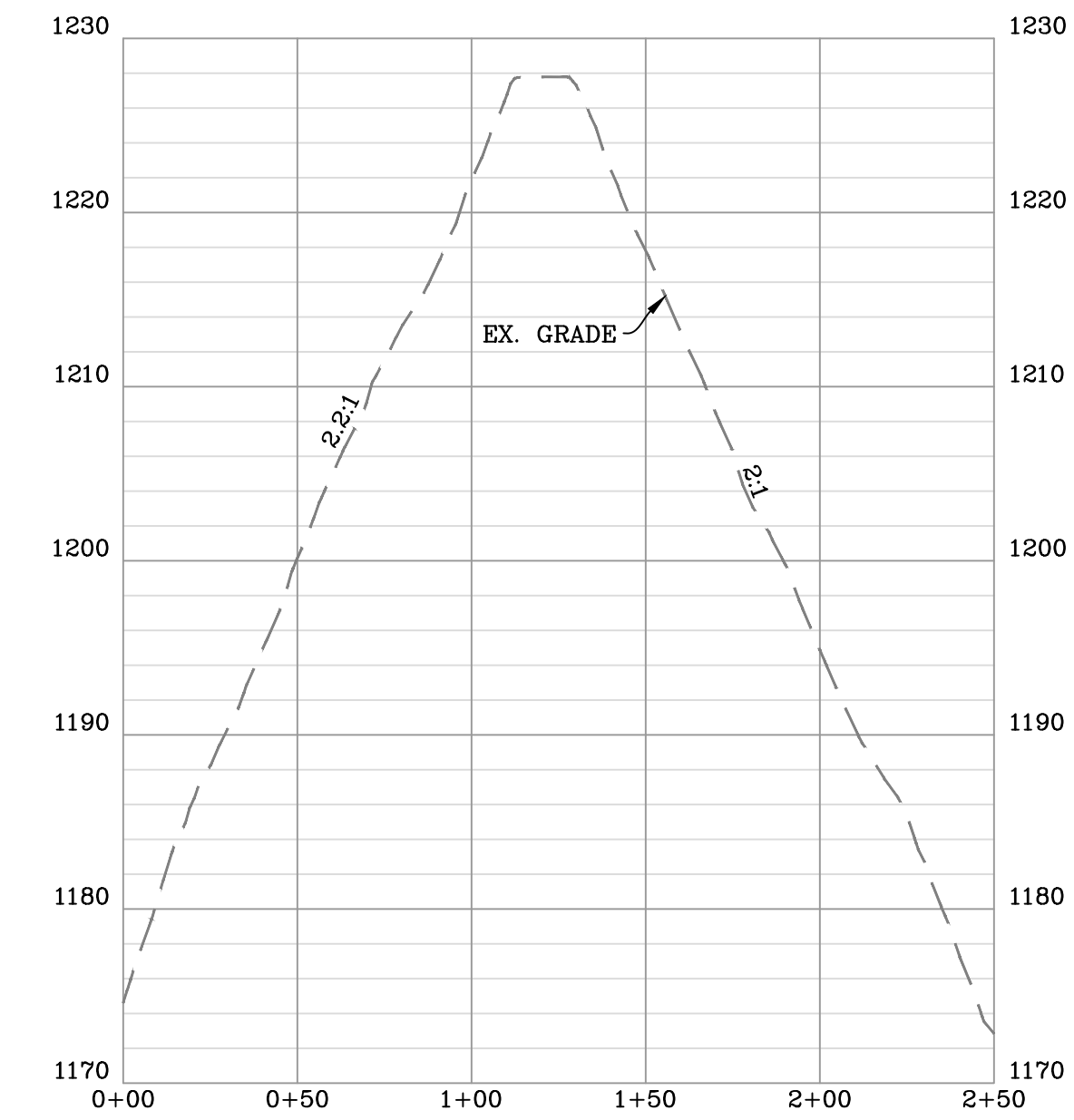
WATER CONTAINMENT PAD AS-BUILT CROSS-SECTION "B-B"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



STOCKPILE AREA "A" & STAGING AREA AS-BUILT CROSS-SECTION "C-C"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



STOCKPILE AREA "B" AS-BUILT CROSS-SECTION "F-F"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



STOCKPILE AREA "B" AS-BUILT CROSS-SECTION "G-G"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'

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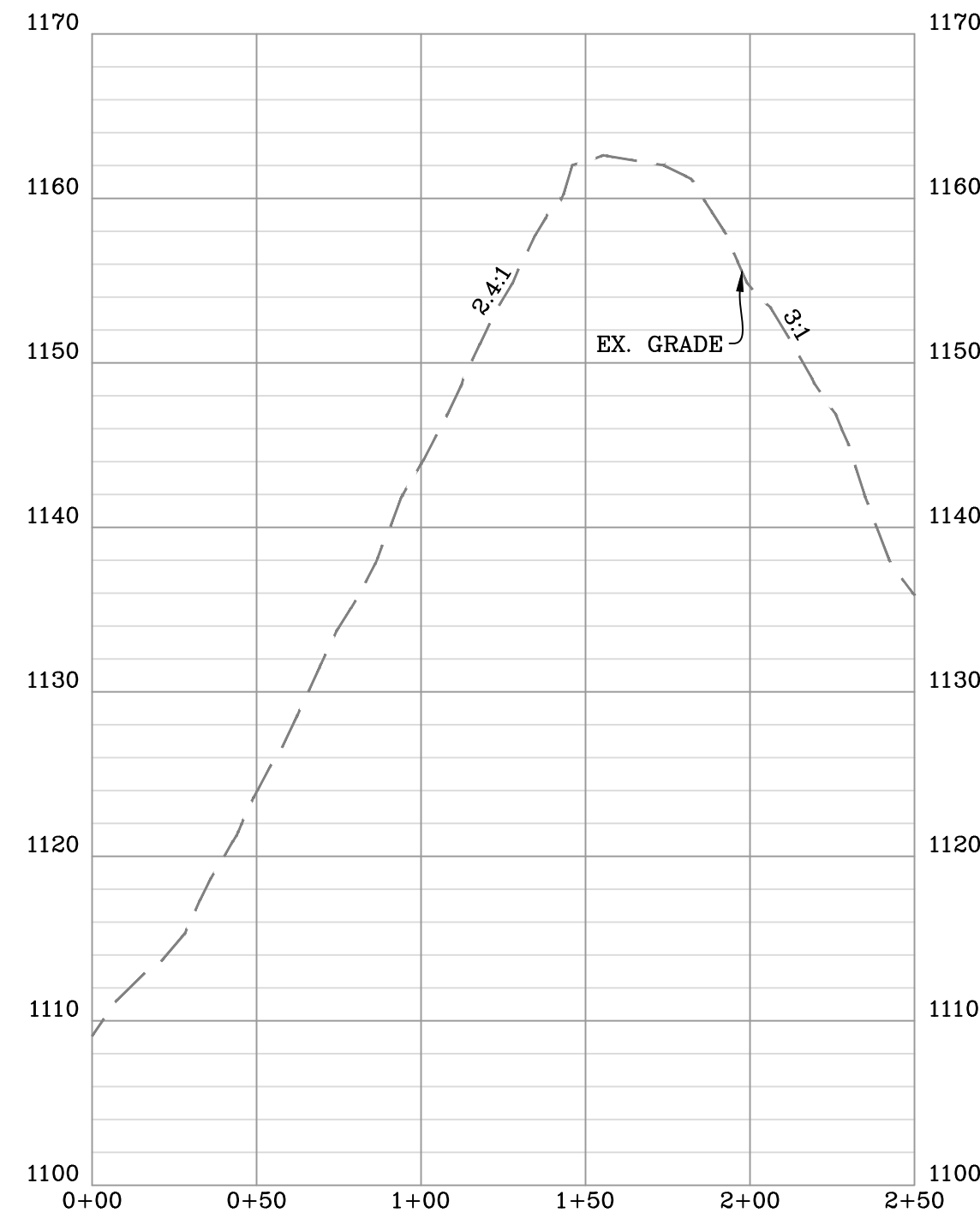
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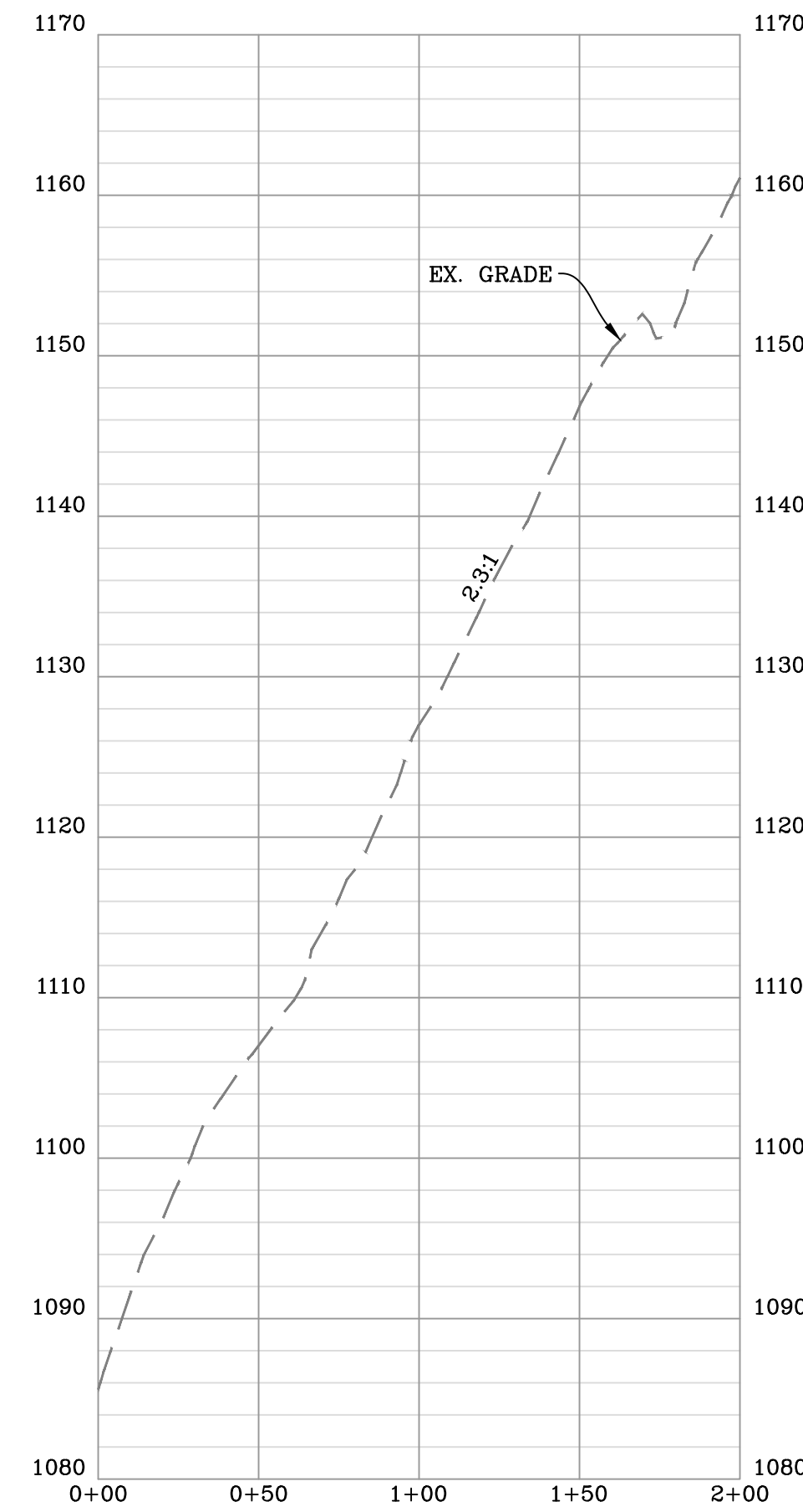
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 SCALE: AS SHOWN
 SHEET 20 OF 24

STOCKPILE AS-BUILT SECTIONS

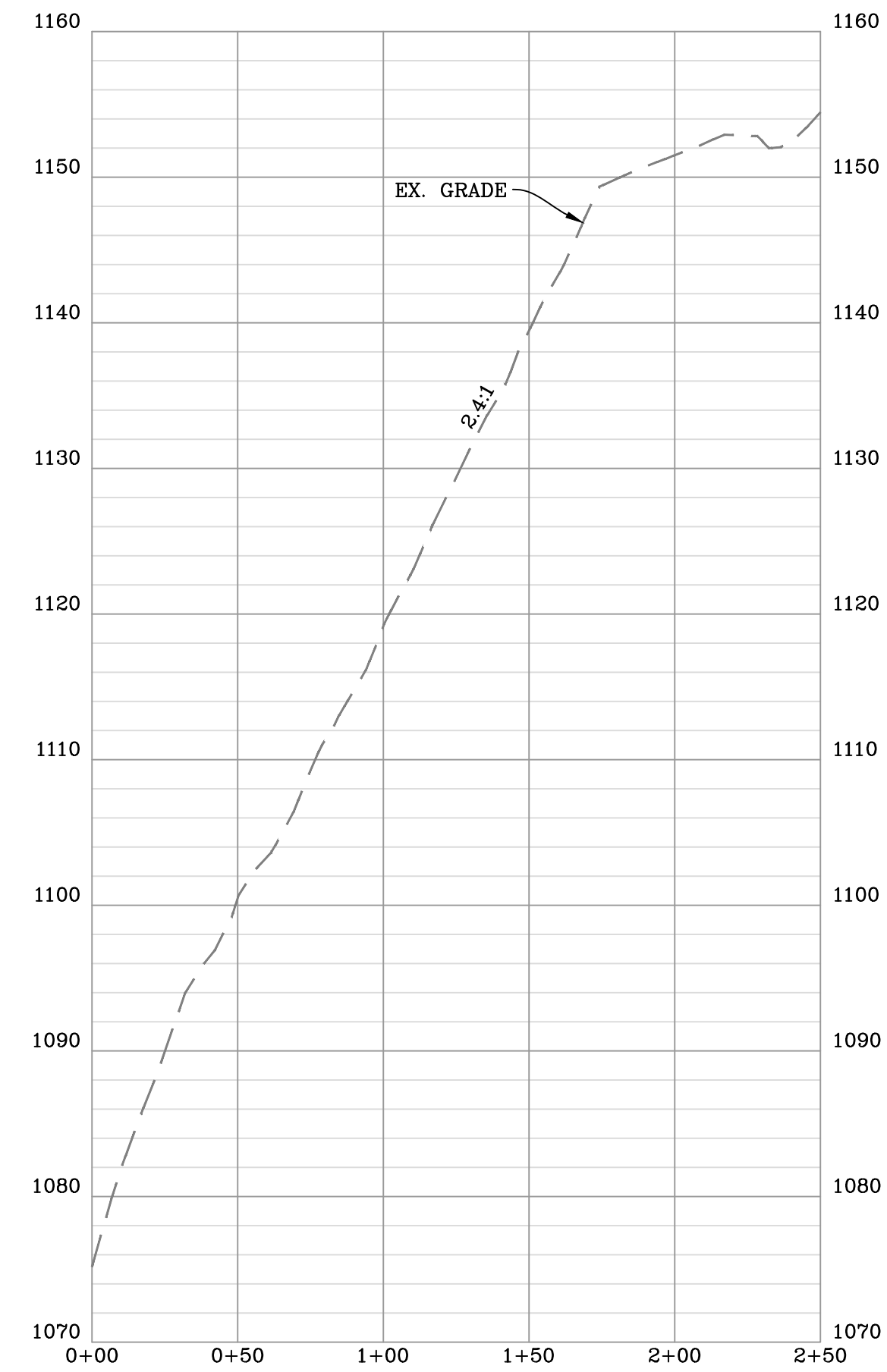
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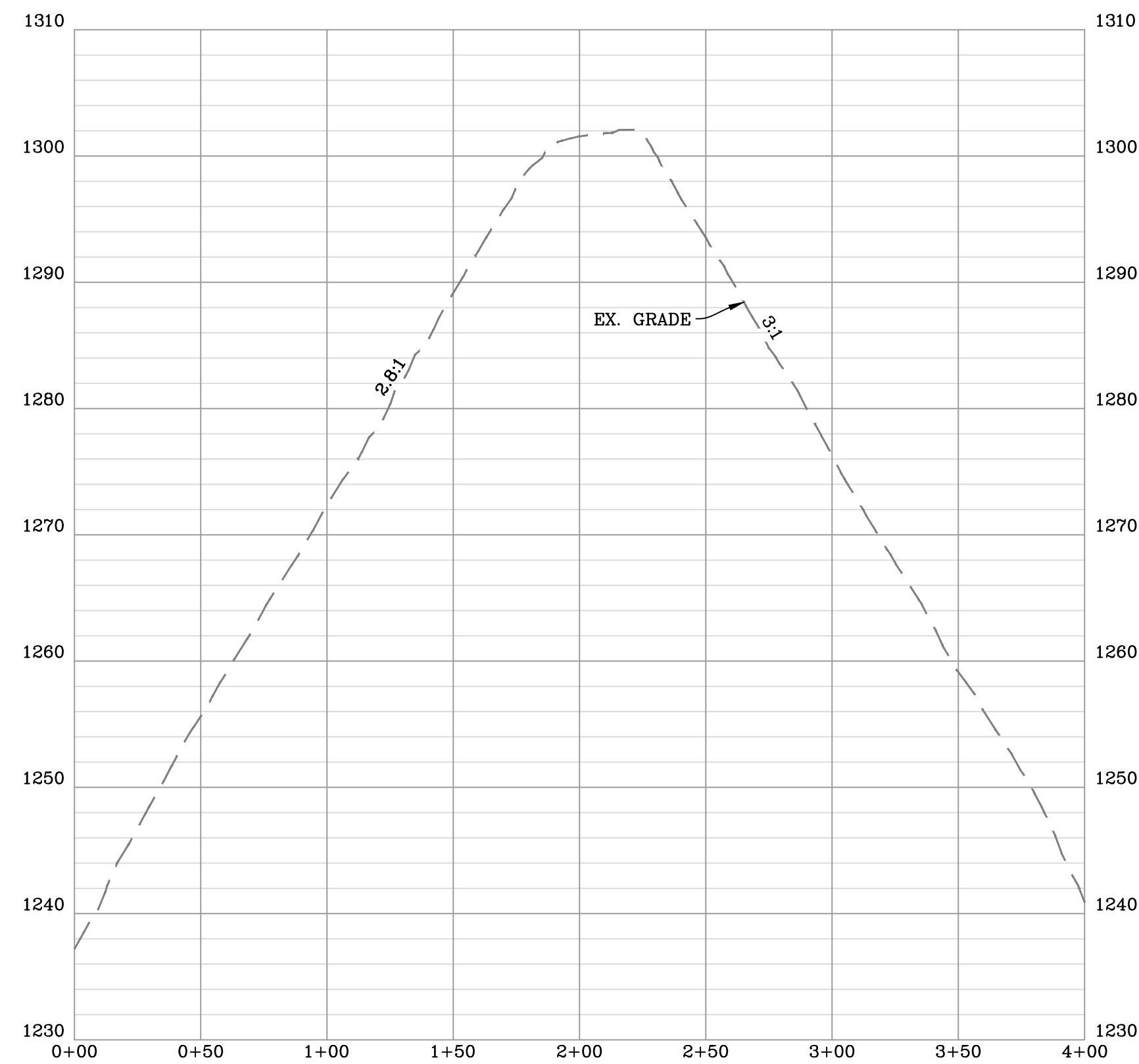
STOCKPILE AREA "C" AS-BUILT CROSS-SECTION "H-H"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



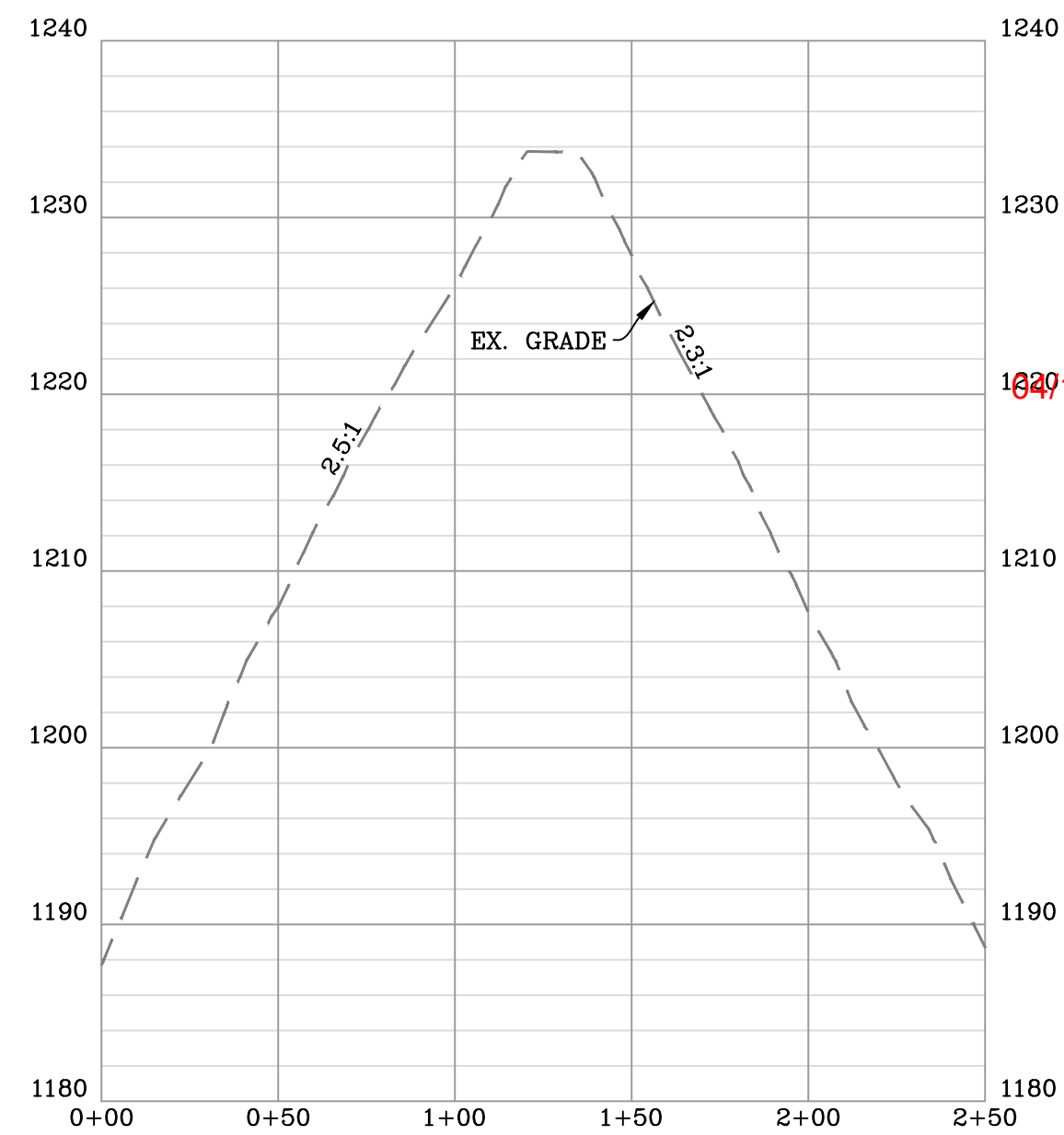
STOCKPILE AREA "D" AS-BUILT CROSS-SECTION "I-I"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



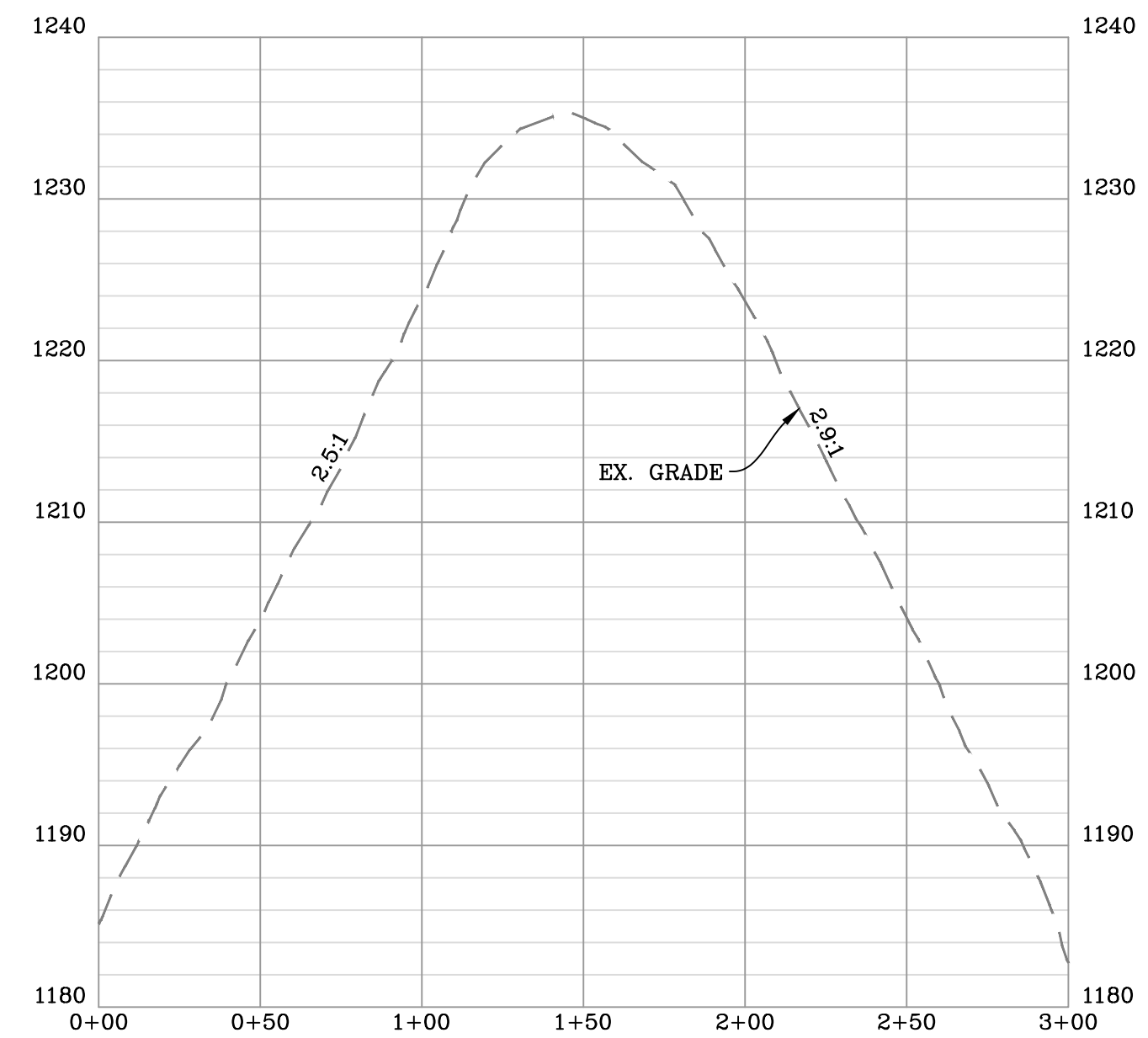
STOCKPILE AREA "D" AS-BUILT CROSS-SECTION "J-J"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



STOCKPILE AREA "E" AS-BUILT CROSS-SECTION "K-K"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



STOCKPILE AREA "F" AS-BUILT CROSS-SECTION "D-D"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'



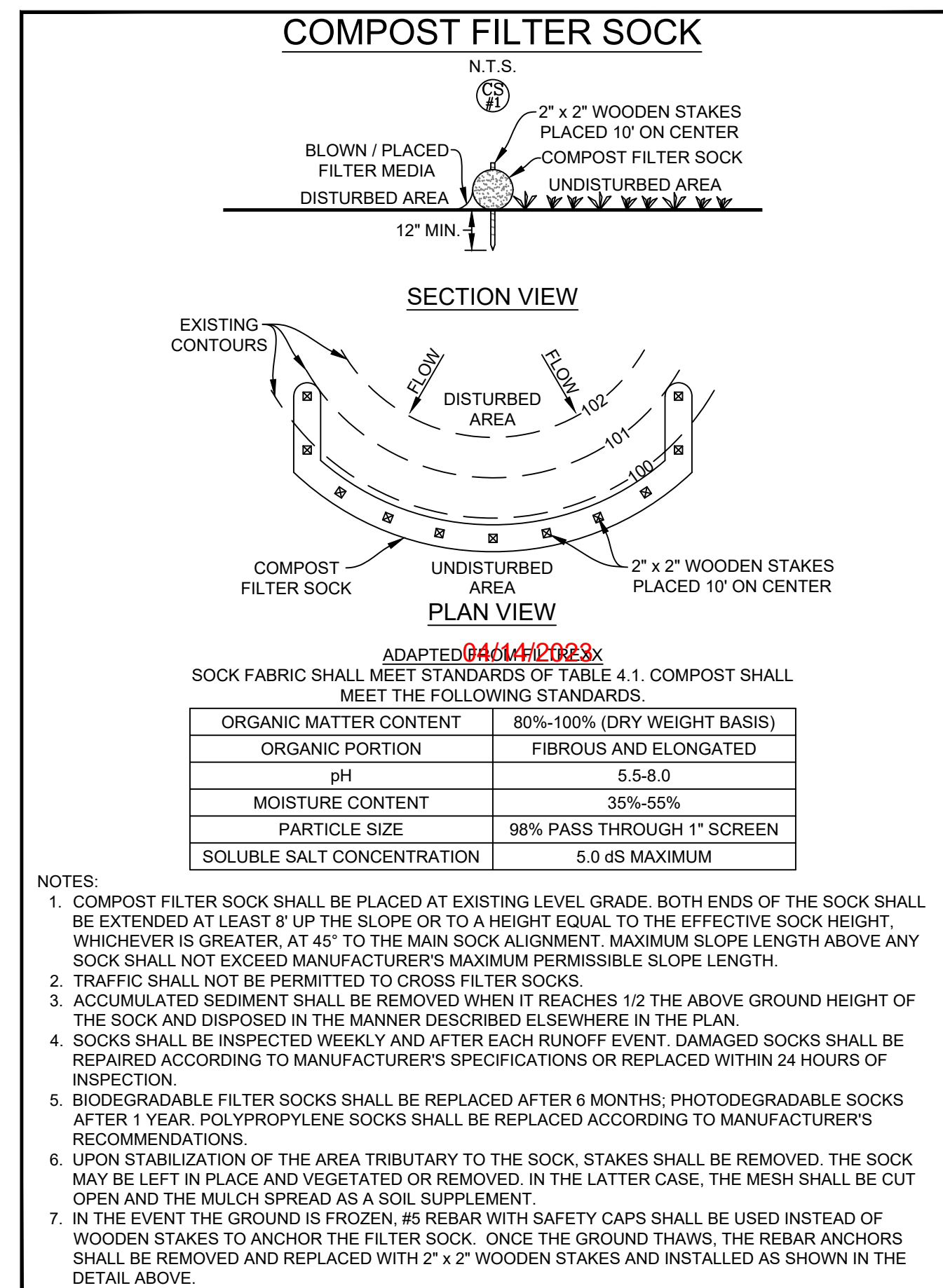
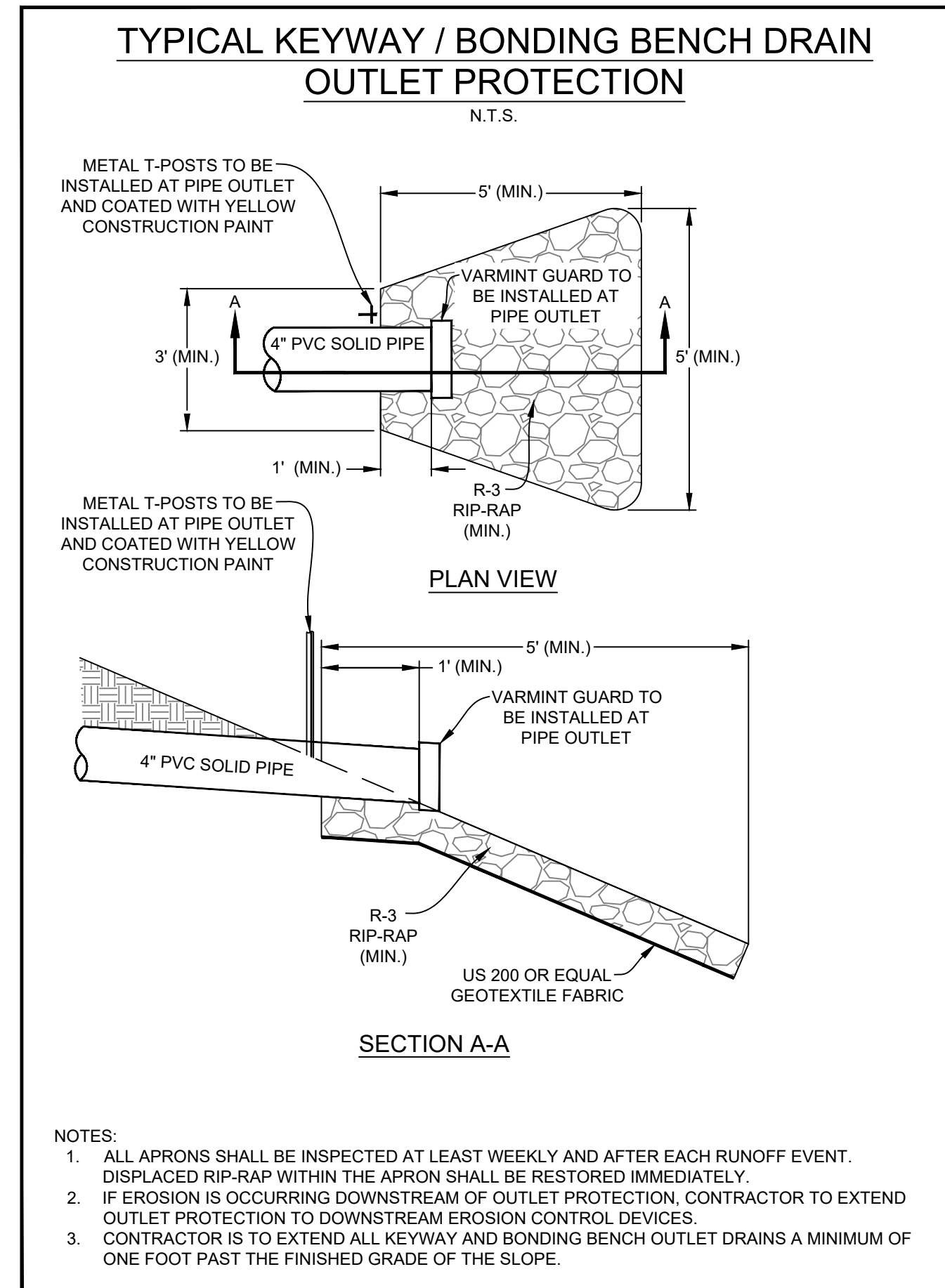
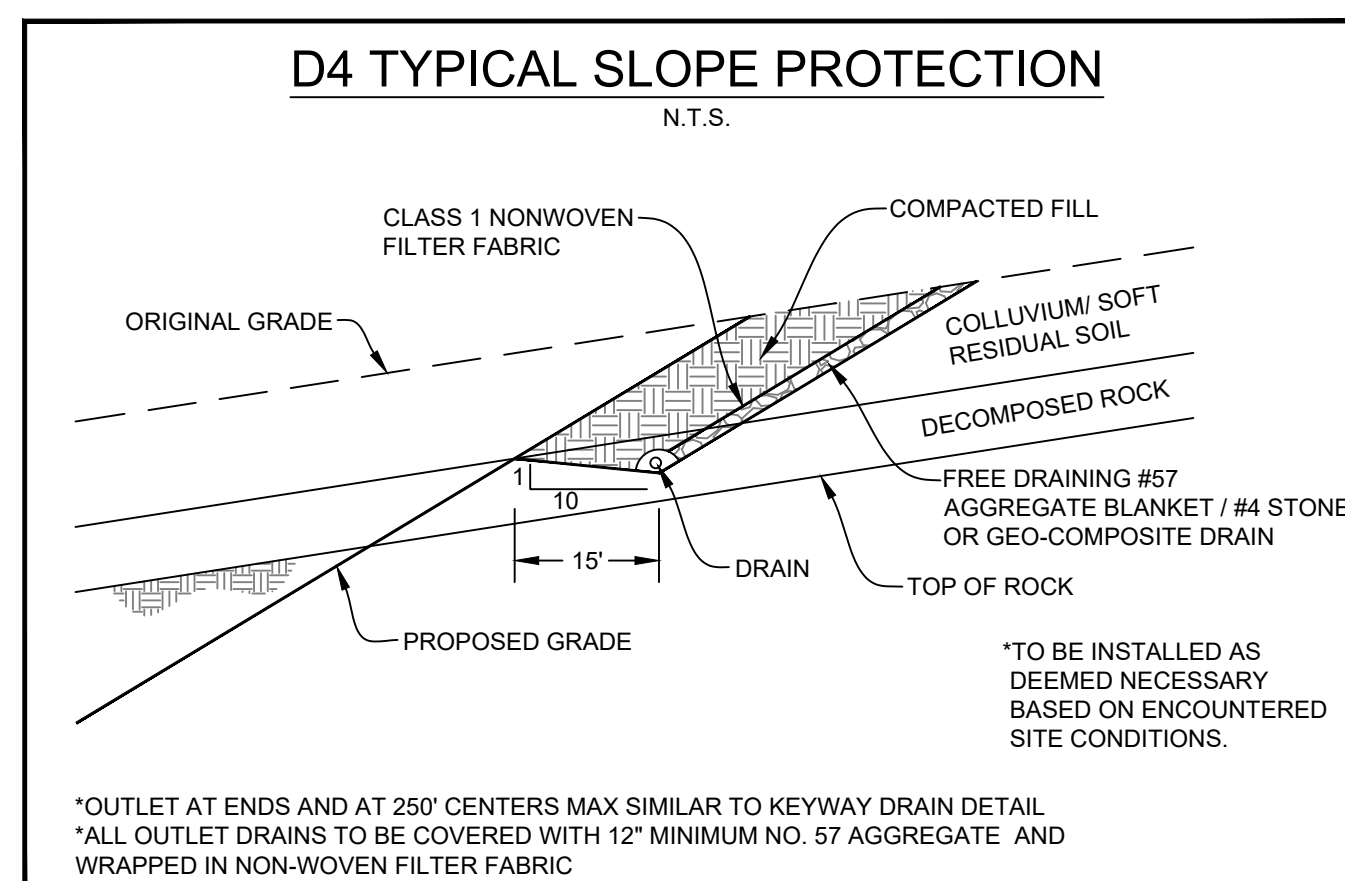
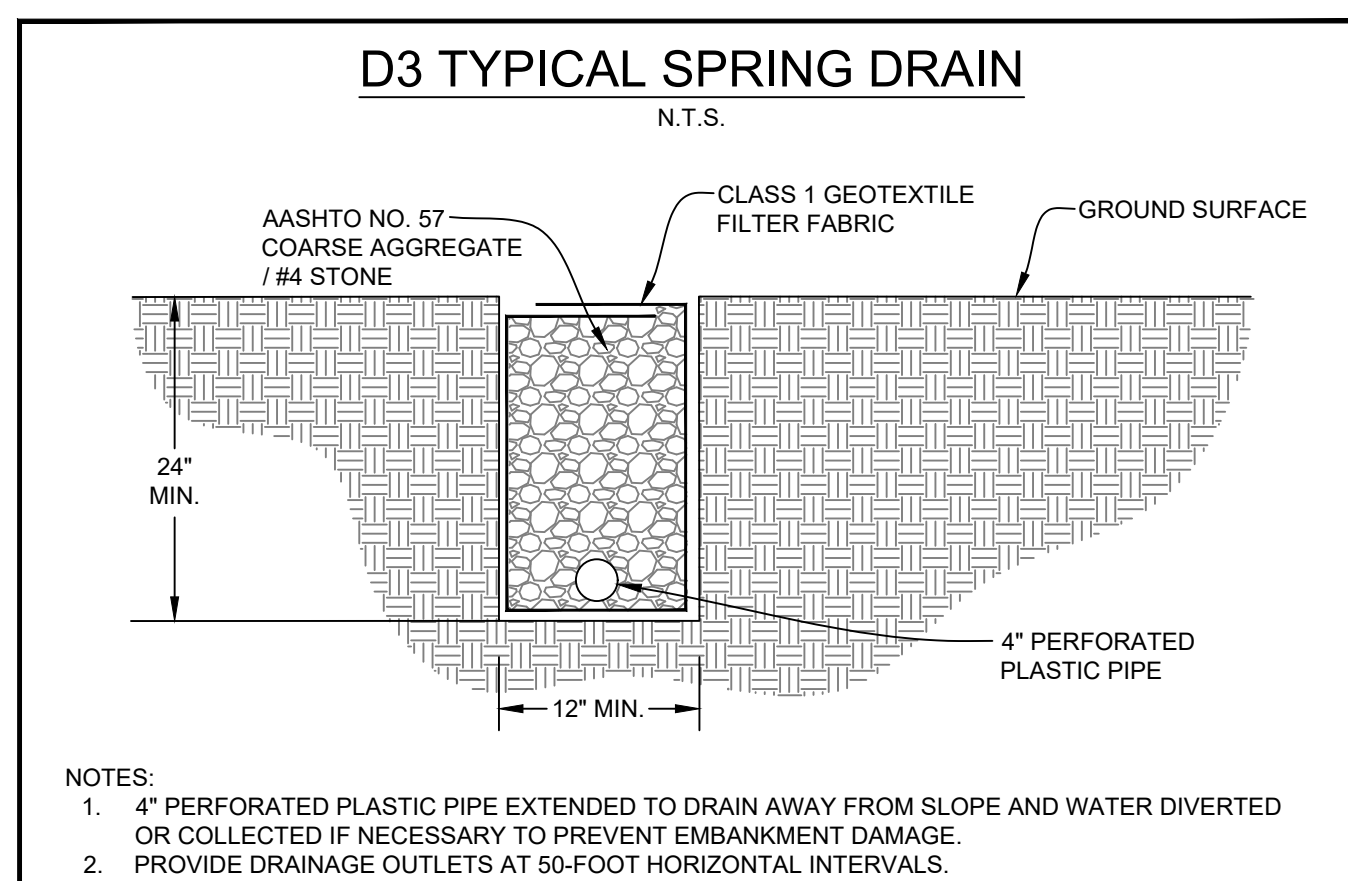
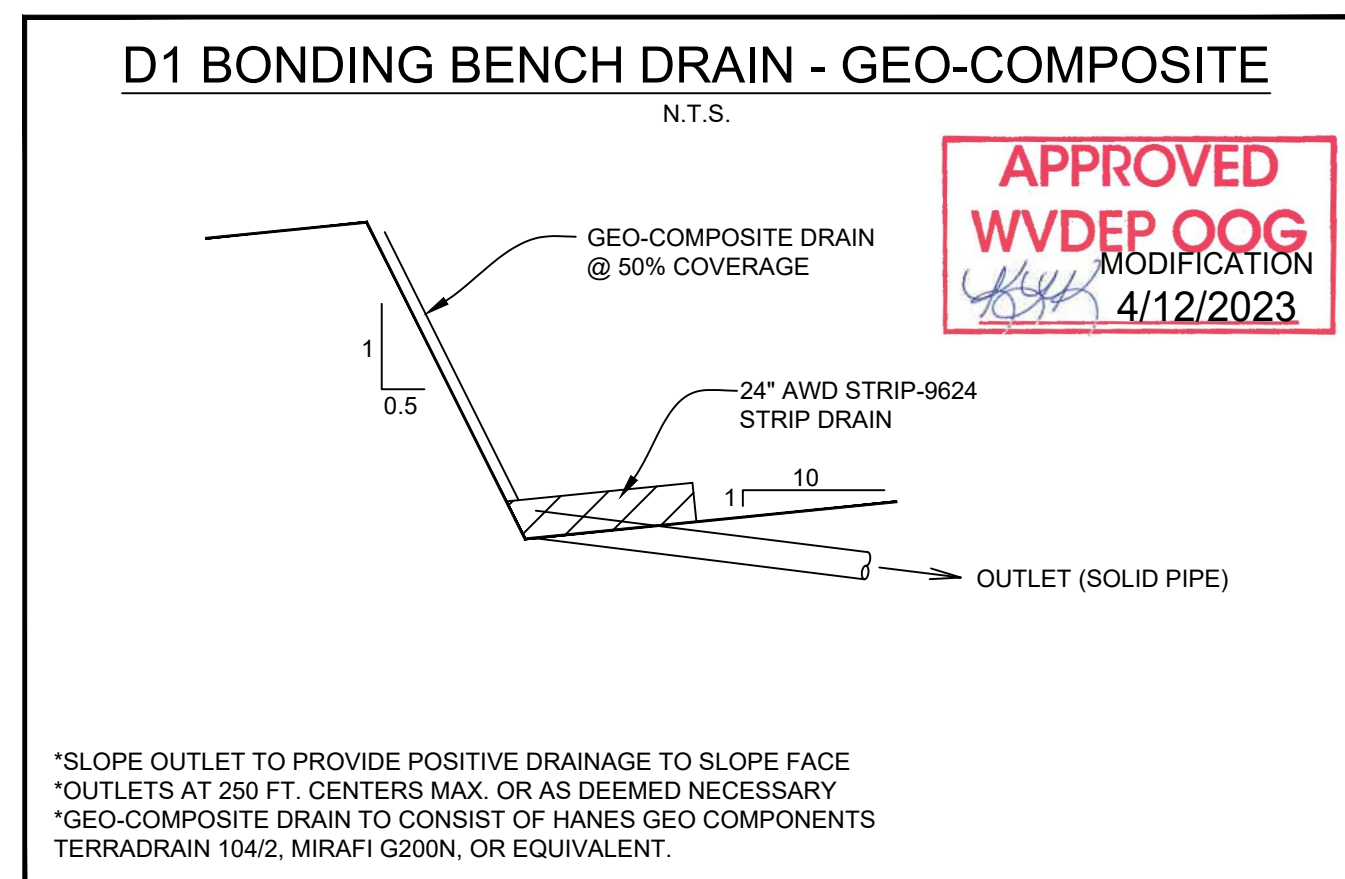
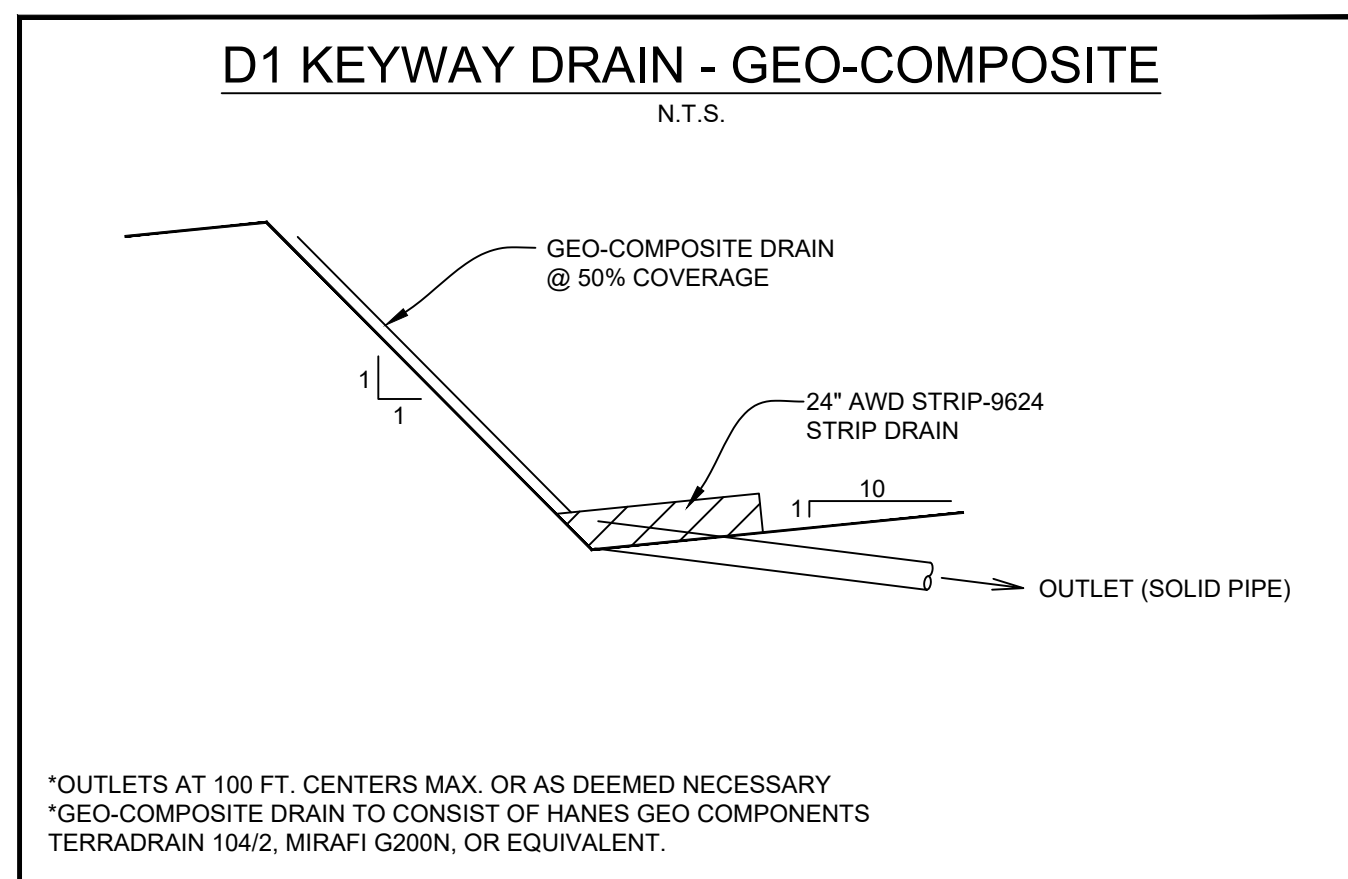
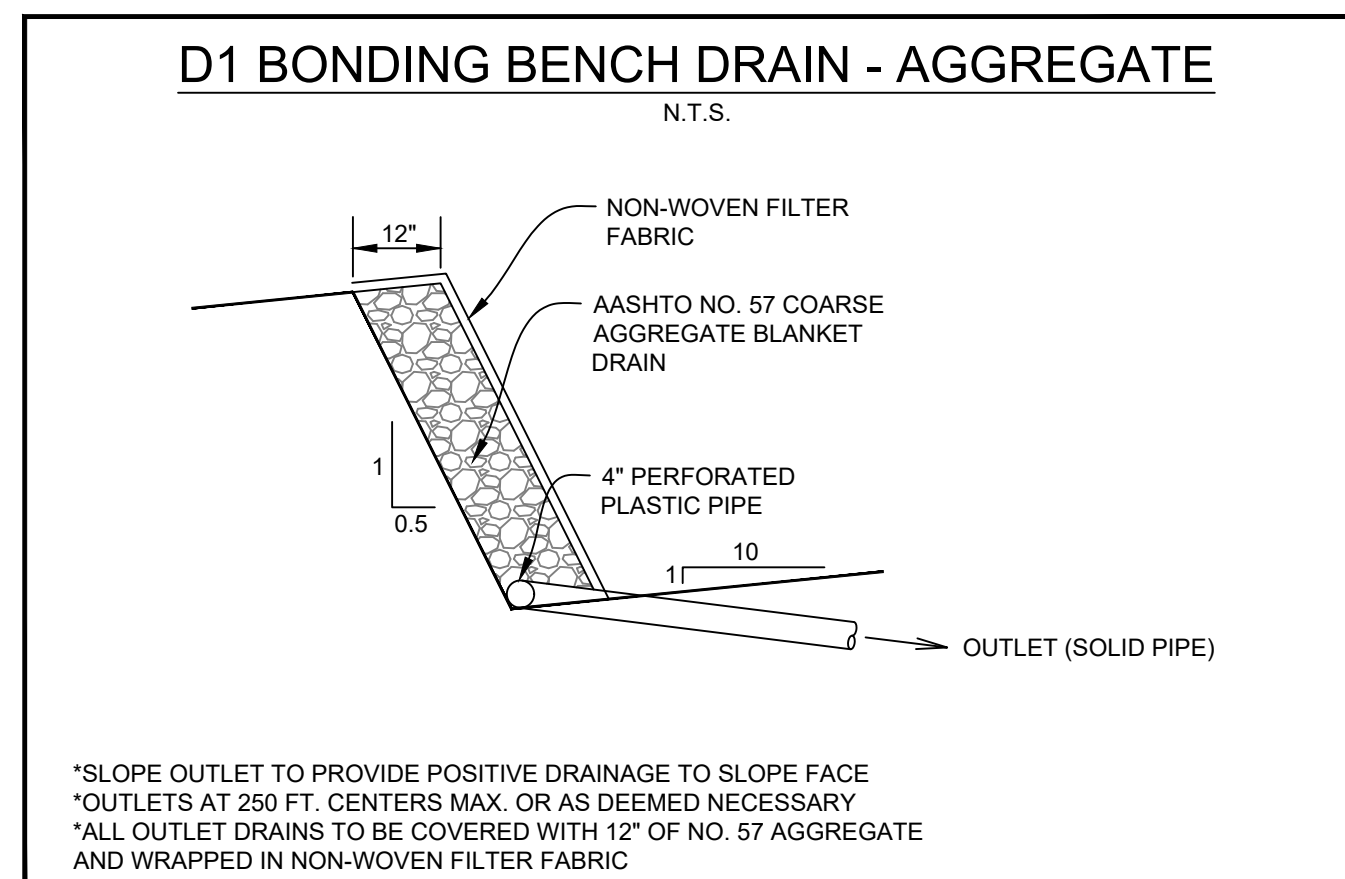
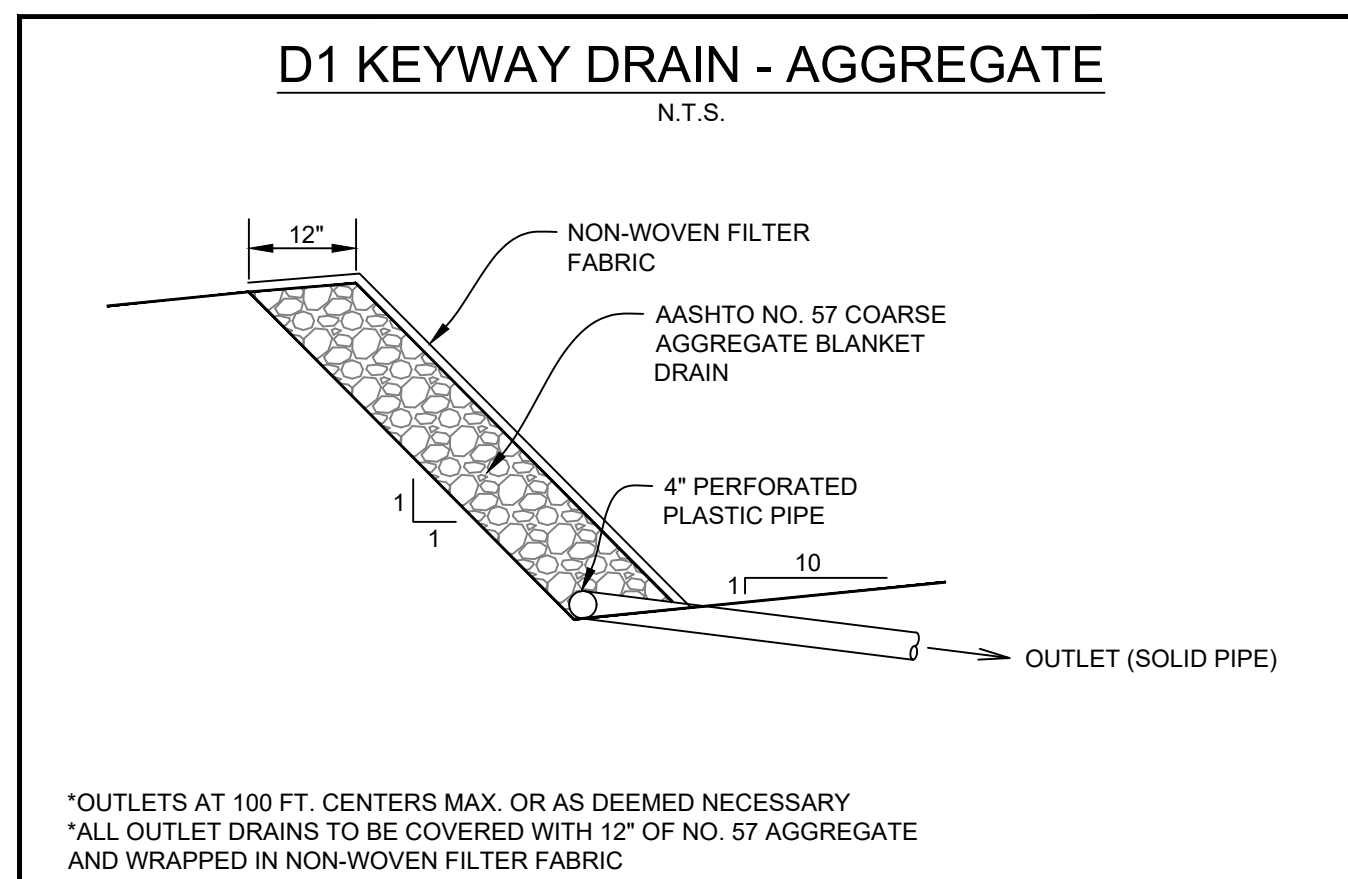
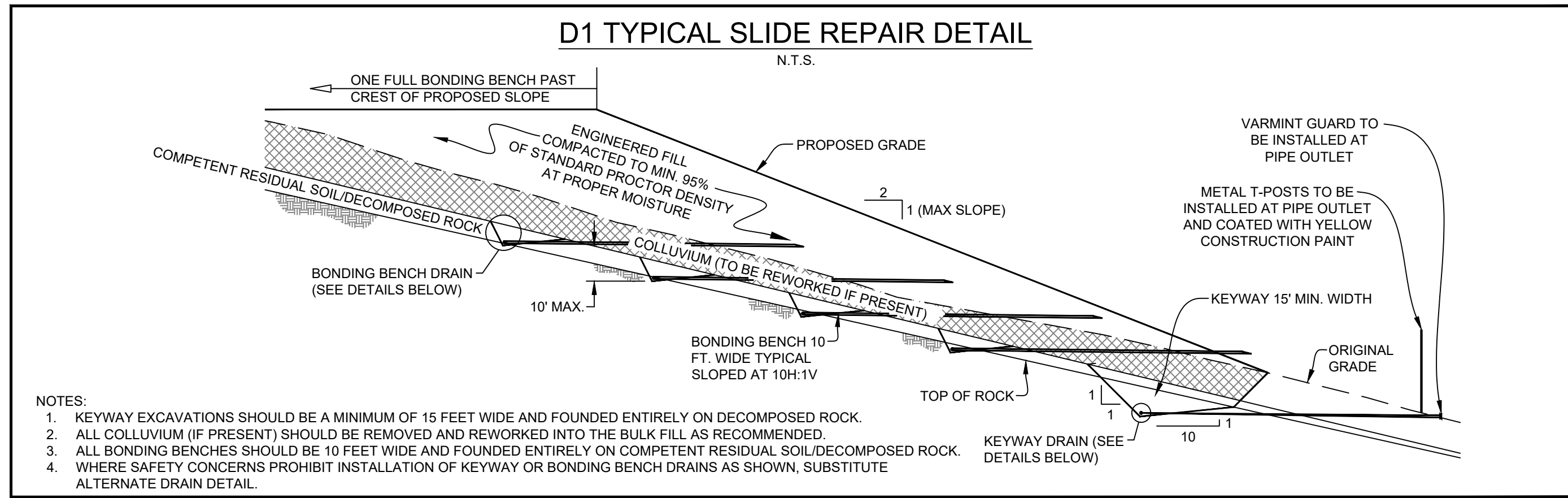
STOCKPILE AREA "F" AS-BUILT CROSS-SECTION "E-E"
 SCALE: HORIZ. 1" = 50' VERT. 1" = 10'

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 WELL PAD & WATER CONTAINMENT PAD
 ELLSWORTH DISTRICT
 TYLER COUNTY, WEST VIRGINIA



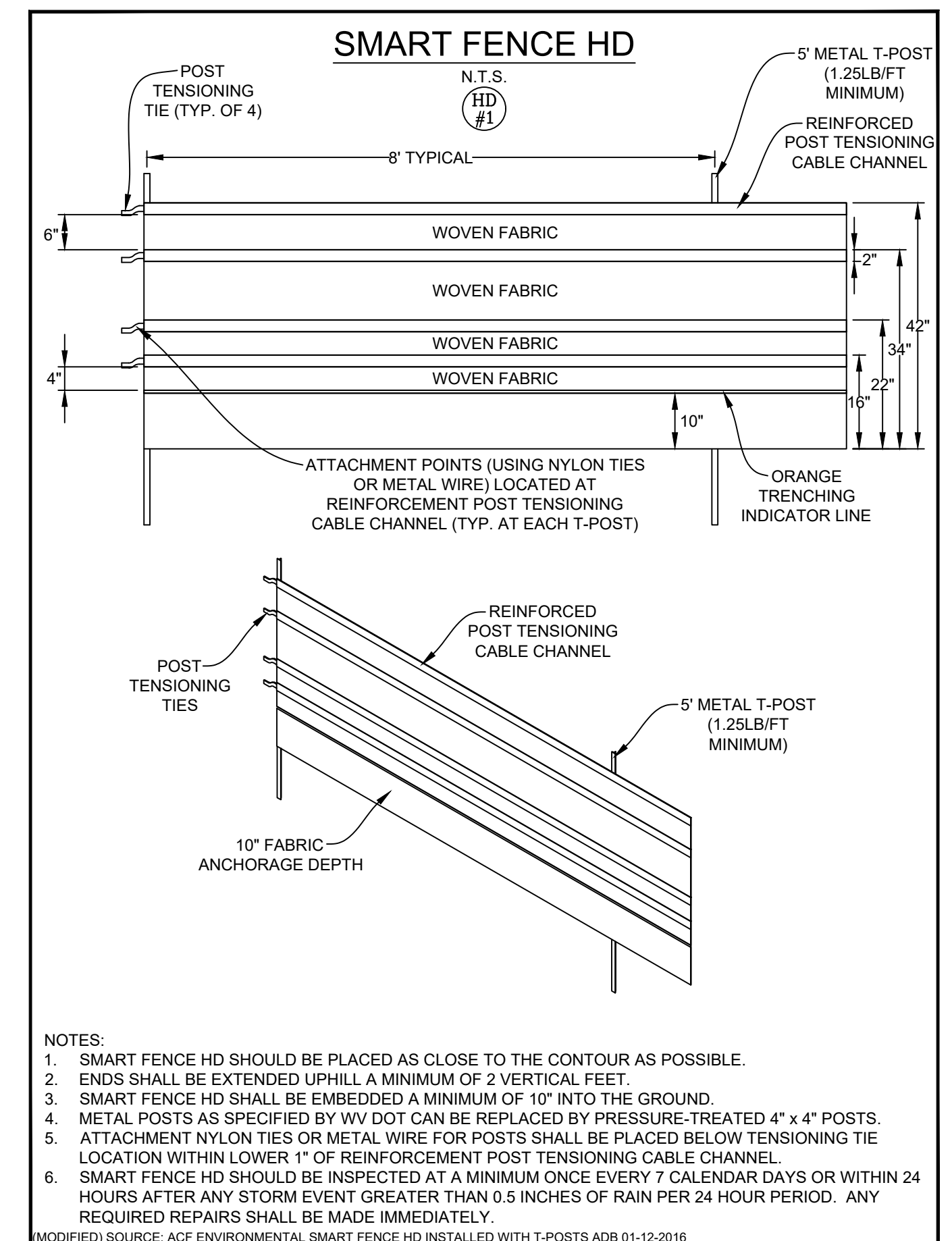


GENERAL SITE EARTHWORK RECOMMENDATIONS

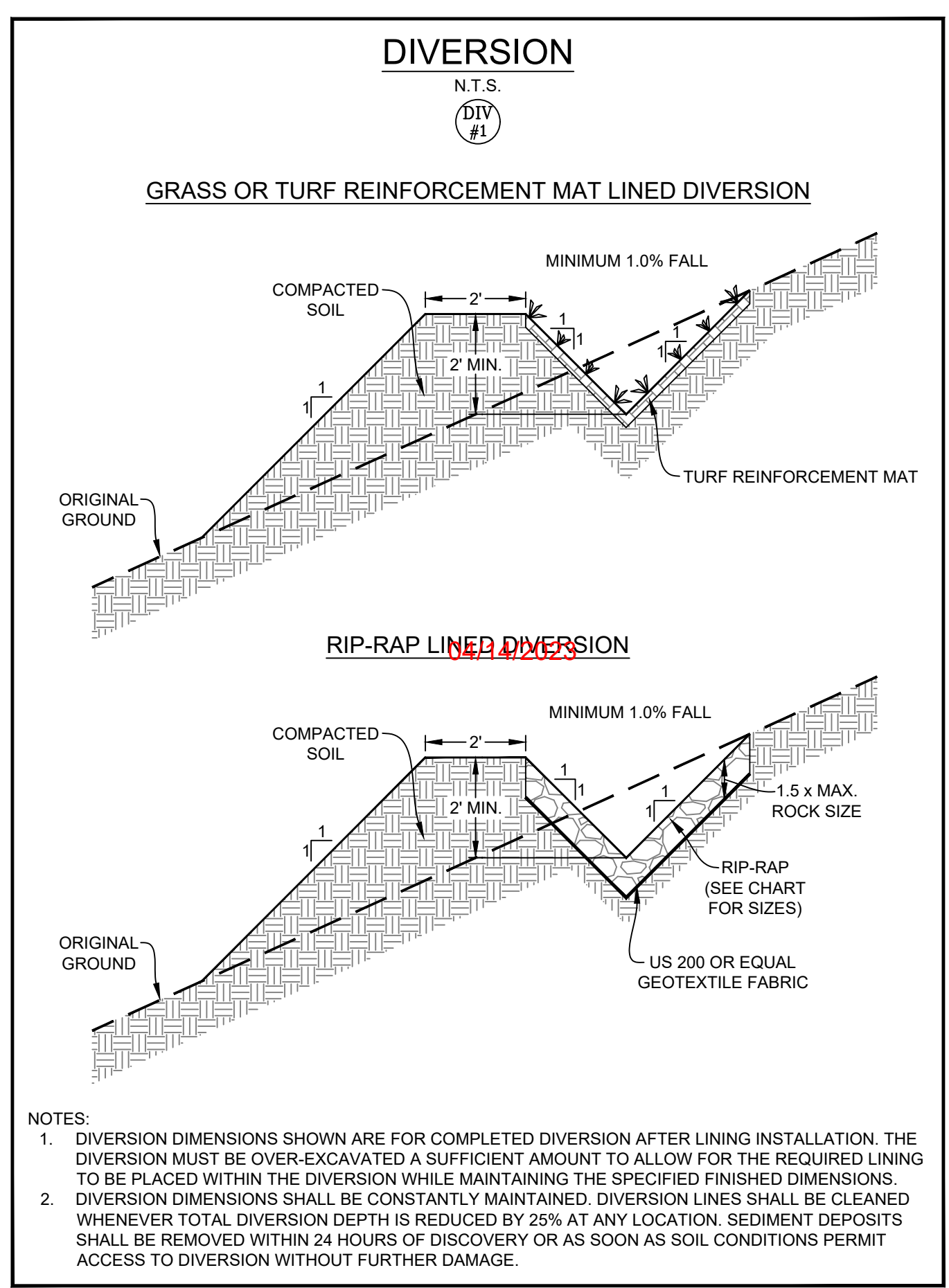
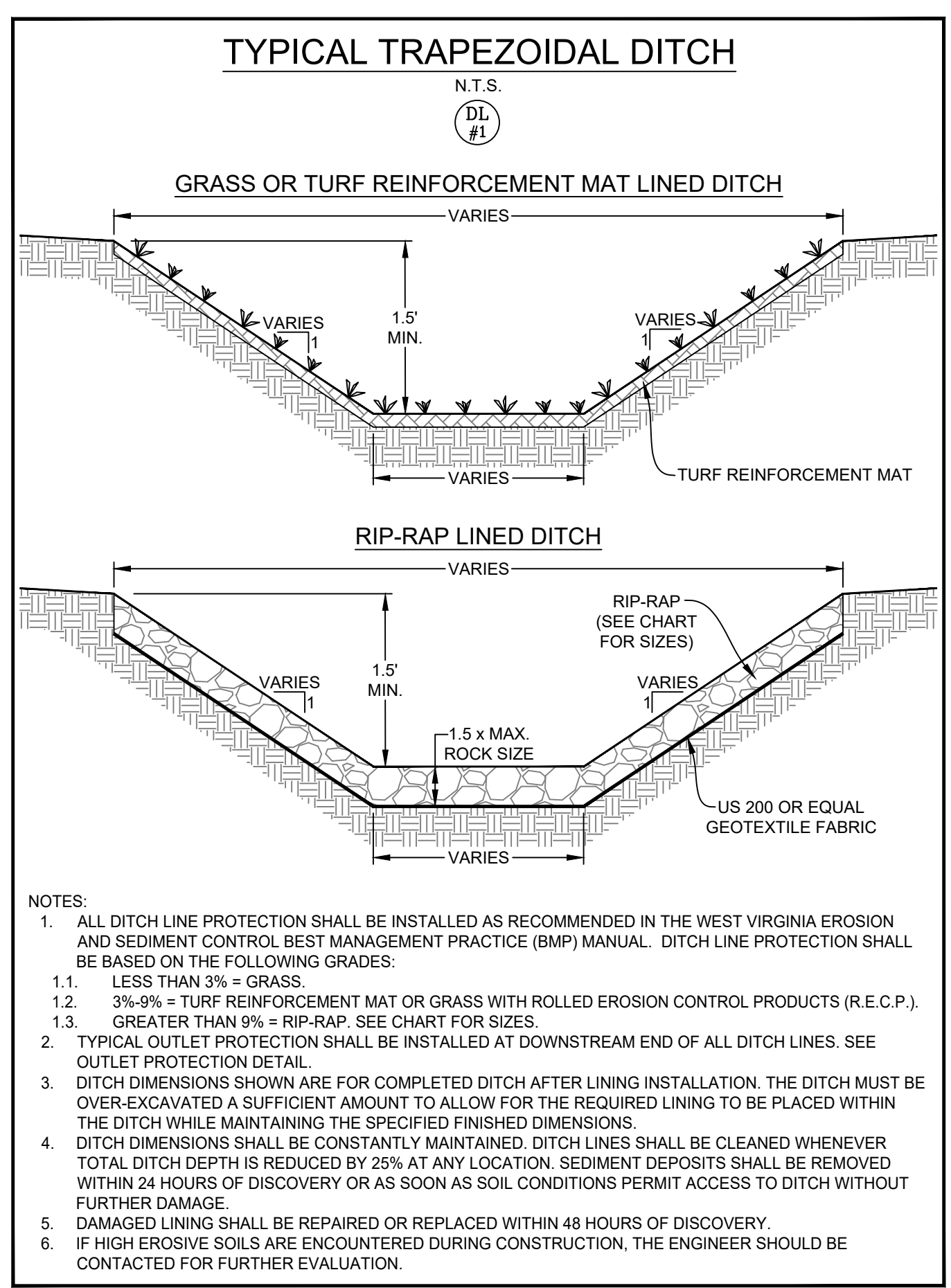
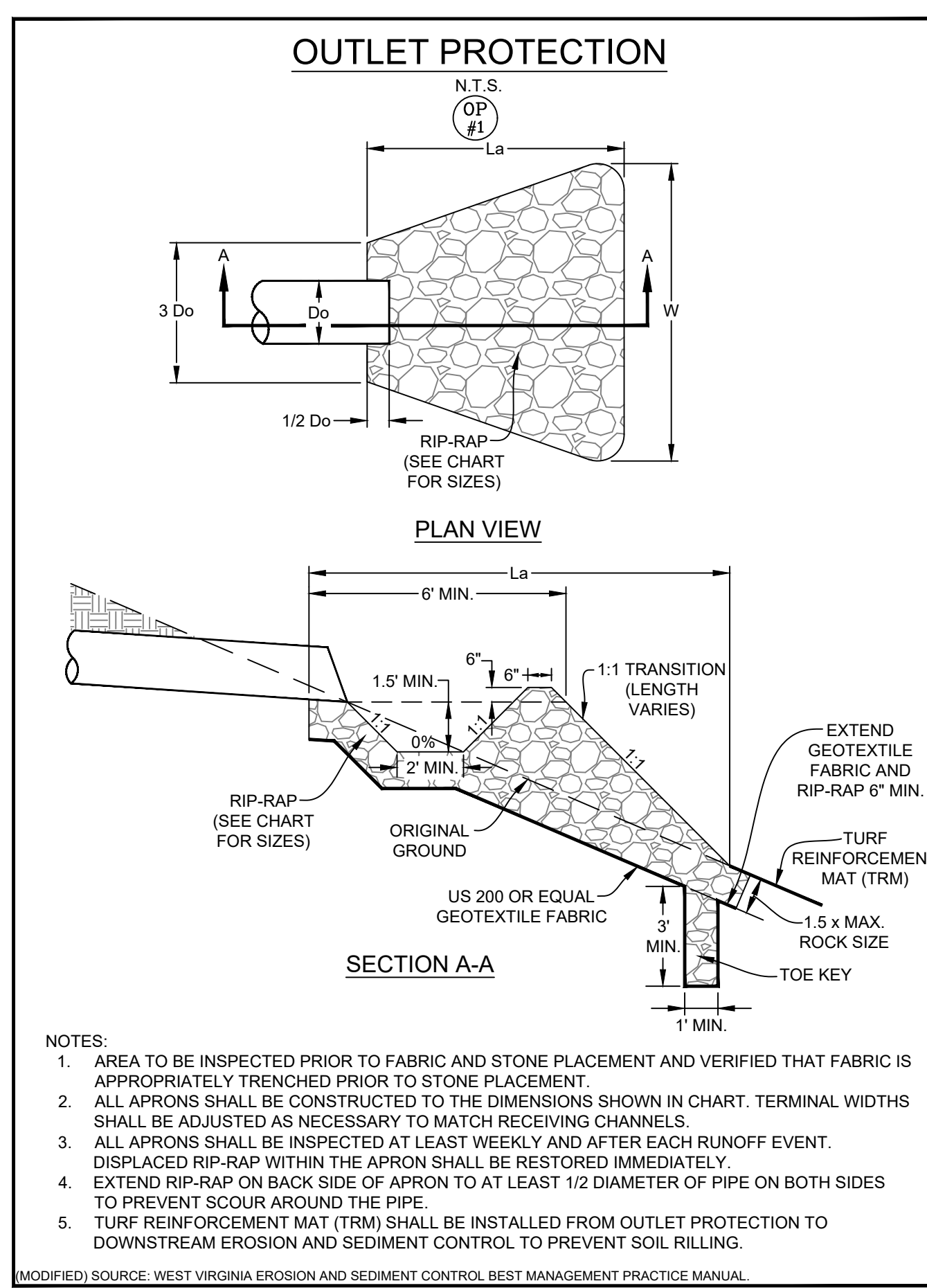
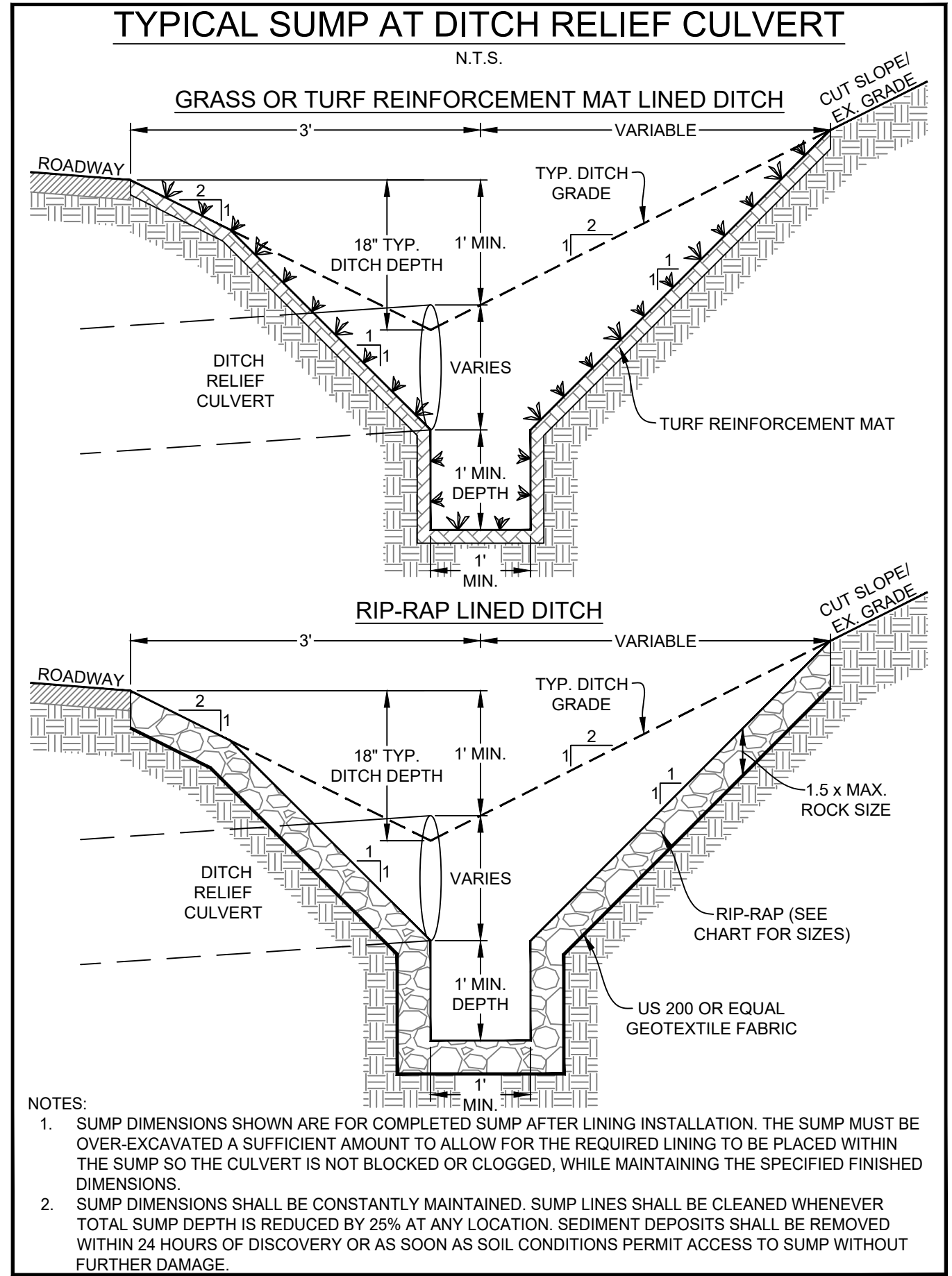
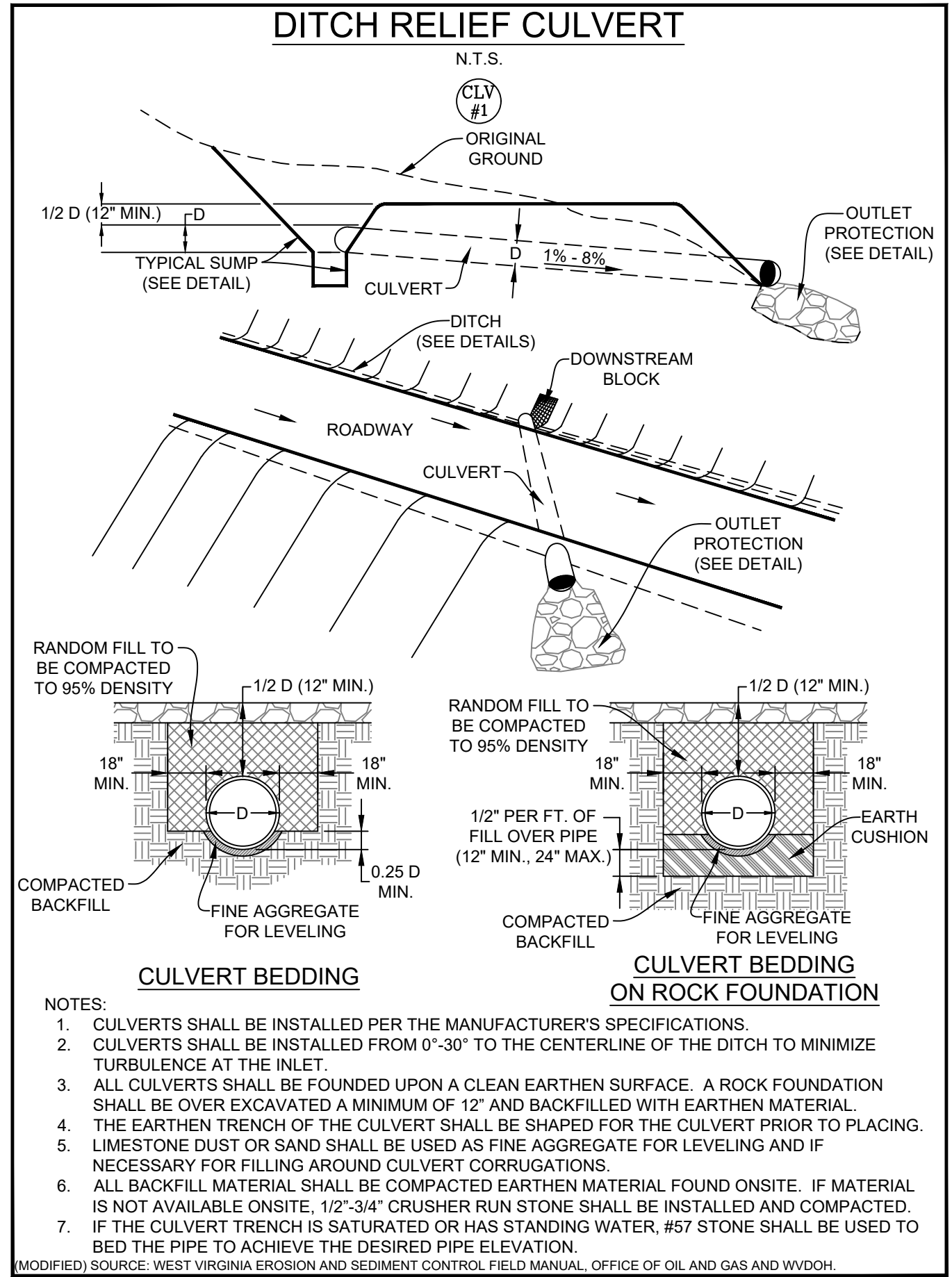
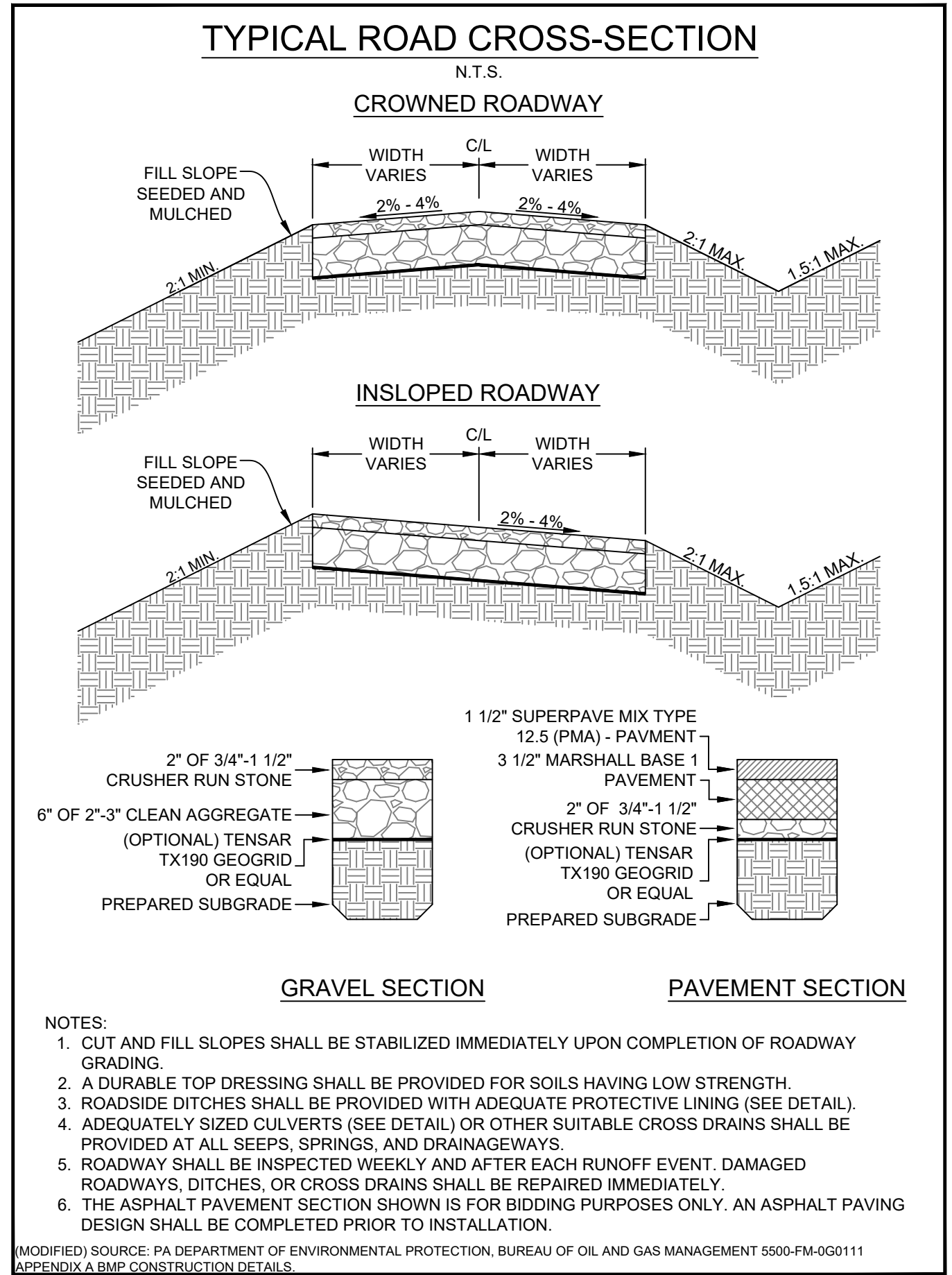
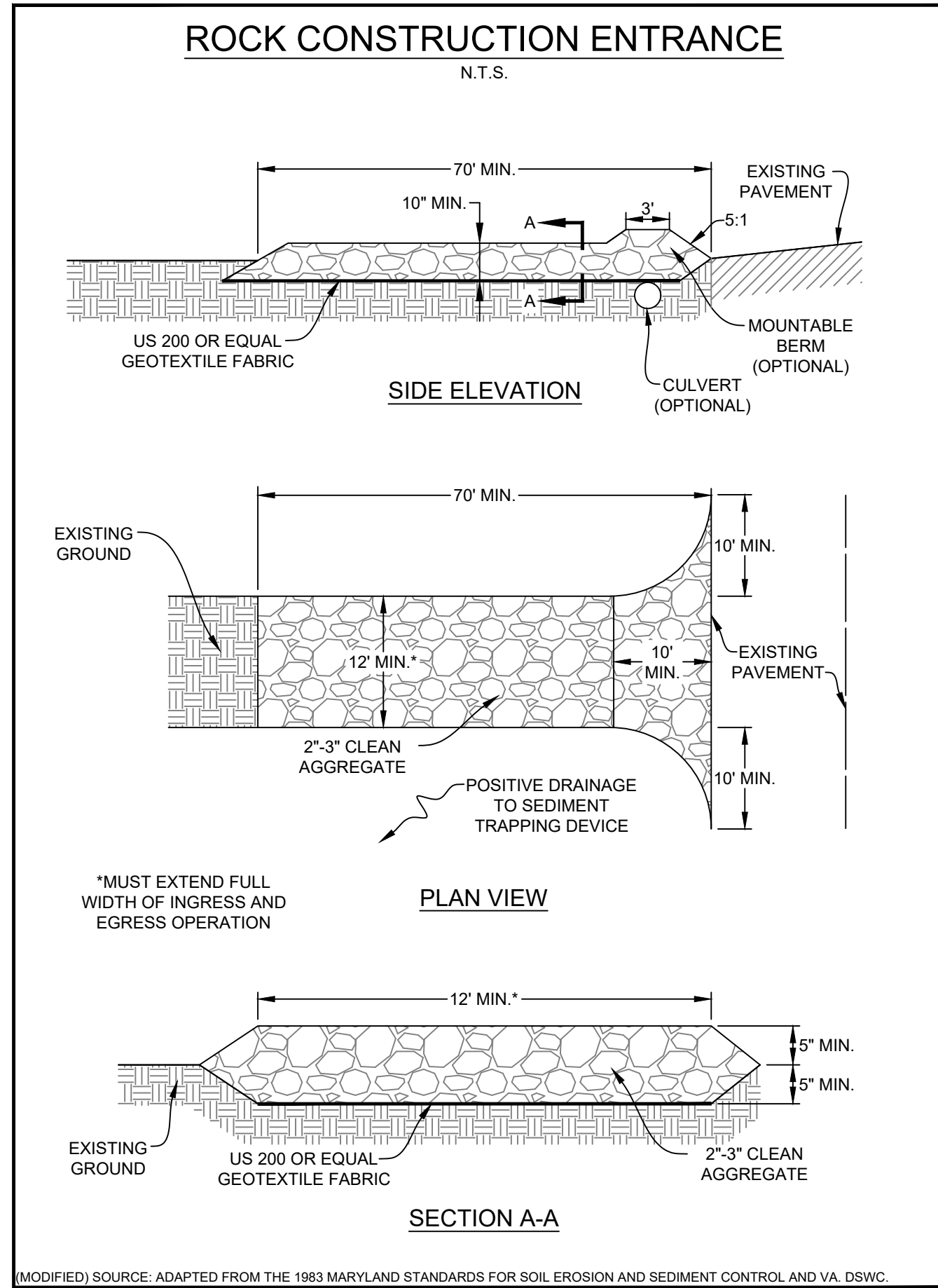
- ALL FILL AREAS SHOULD BE CLEARED OF TREES, STUMPS, AND VEGETATION AND STRIPPED OF TOPSOIL/ORGANIC SOILS PRIOR TO THE START OF FILL PLACEMENT.
- THE DISTRIBUTION AND GRADATION OF FILL MATERIALS SHALL BE SUCH THAT THE FILL WILL BE FREE OF LENSES, POCKETS, OR LAYERS OF MATERIALS DIFFERING SUBSTANTIALLY IN GRADATION FROM THE SURROUNDING MATERIALS WITHIN THE DESIGNATED FILL AREAS.
- FILL SHALL BE PLACED AND SPREAD IN SUCCESSIVE AND APPROXIMATE HORIZONTAL LAYERS OF UNIFORM THICKNESS BASED ON THE NOMINAL PARTICLE SIZE OF MATERIAL AND THE SIZE AND TYPE OF THE AVAILABLE COMPACTION EQUIPMENT. IN GENERAL, SOIL SHOULD BE PLACED IN NOMINAL 12 INCH MAXIMUM LOOSE LIFTS. LARGER ROCK INCORPORATED INTO THE FILL SHOULD TYPICALLY BE LIMITED TO 12 INCHES THICK X 3 FEET X 3 FEET, WITH ALL VOID SPACE CHOKED WITH SMALLER PARTICLE SIZE MATERIAL.
- ADEQUATE COMPACTION EFFORT IS APPLIED BY UTILIZING THE PROPER COMPACTION EQUIPMENT FOR THE COMPOSITION OF THE FILL MATERIALS BEING PLACED. SEGMENTED, SHEEPSFOOT, AND/OR PADFOOT ROLLERS SHOULD BE USED WHEN PLACING PREDOMINATELY CLAYEY (COHESIVE) FILL MATERIALS. THESE TYPES OF ROLLERS ARE ALSO EFFECTIVE ON CLAYEY SHALES, CLAYSTONE, AND SOFTER SANDSTONE TO BREAK DOWN THE ROCK PARTICLES. SMOOTH DRUM VIBRATORY ROLLERS SHOULD BE UTILIZED ON PREDOMINATELY GRANULAR FILL MATERIALS AND TO SEAL CLAYEY SOILS TO HELP PREVENT SURFACE WATER INFILTRATION AND/OR TO PROMOTE DRAINAGE.
- ALL FILL MATERIALS SHALL BE COMPACTIONED BY A SUFFICIENT NUMBER OF COMPLETE TRIPS (I.E. PASSES) OF THE APPROPRIATE COMPACTION EQUIPMENT TO ATTAIN A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM TEST DESIGNATION D698 (STANDARD PROCTOR). MAINTAIN THE MOISTURE CONTENT OF THE FILL MATERIALS AS NECESSARY TO ATTAIN THE DESIRED COMPACTION DENSITY.
- UNDISTURBED AND/OR FILL MATERIALS PLACED WITHIN THE UPPER 12 INCHES OF FINAL GRADE SHOULD BE COMPACTIONED TO ATTAIN A MINIMUM OF 100% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM TEST DESIGNATION D698 (STANDARD PROCTOR) AT AN IN-PLACE MOISTURE WITHIN 3% OF THE MATERIAL'S OPTIMUM MOISTURE CONTENT. THE ENTIRE SUBGRADE SURFACE SHOULD BE THOROUGHLY SEALED USING A VIBRATORY SMOOTH DRUM ROLLER.
- TO VERIFY THE SPECIFIED DEGREE OF COMPACTION AND TO DETERMINE THE IN-PLACE MOISTURE CONTENT AS STATED ABOVE, IN-PLACE FIELD DENSITY TESTS SHOULD BE PERFORMED IN ACCORDANCE TO THE PROCEDURES OF ASTM D2922 (NUCLEAR DENSOMETER).
- IN ADDITION TO IN-PLACE FIELD DENSITY TESTING, ACCEPTANCE SHOULD ALSO BE PREDICATED ON A VISUAL PERFORMANCE CRITERIA. OBVIOUS SURFACE RUTTING AND/OR DEFLECTION THAT ARE JUDGED TO BE DETRIMENTAL TO THE OVERALL STABILITY OF THE FILL AREA SHOULD BE REMOVED, MOISTURE CONDITIONED AND RECOMPACTIONED, OR OTHERWISE ADDRESSED PRIOR TO ACCEPTING THE LIFT.
- WHERE PREDOMINATELY "ROCKY" FILL MATERIALS ARE PLACED OR WHERE REPRESENTATIVE NUCLEAR DENSOMETER TESTS CANNOT BE OBTAINED, A VISUAL NON-DEFLECTION CRITERIA SHOULD BE DEVELOPED IN CONJUNCTION WITH AN ADEQUATE NUMBER OF ROLLER PASSES FOR ACCEPTANCE.

NOTE:

- THE GEOTECHNICAL NOTES AND DETAILS SHOWN ON THIS SHEET ARE FOR THE GENERAL EARTHWORK AND SUBSURFACE DRAINAGE ASSOCIATED WITH THE CONSTRUCTION OF THIS SITE. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR ADDITIONAL GUIDANCE AND RECOMMENDATIONS.



DATE	REVISION	REVISED PER	LANDOWNER ROAD	LOD	MOD
03/13/2023					



APPROVED WVDEP OOG MODIFICATION 4/12/2023

DATE	REVISION
03/13/2023	REVISED PER LANDOWNER ROAD LOD MOD

Antero Resources
THIS DOCUMENT WAS PREPARED FOR: ANTERO RESOURCES CORPORATION

CONSTRUCTION DETAILS
ED YOST
WELL PAD & WATER CONTAINMENT PAD
ELLSWORTH DISTRICT
TYLER COUNTY, WEST VIRGINIA

